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VOL. VII

NEW YORK, OCTOBER 20, 1920

No. 16

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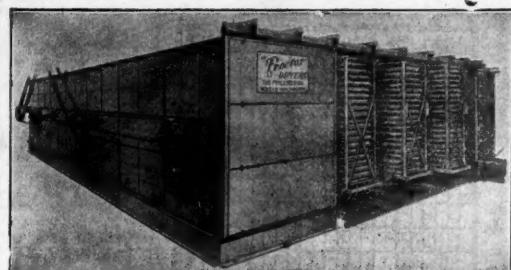
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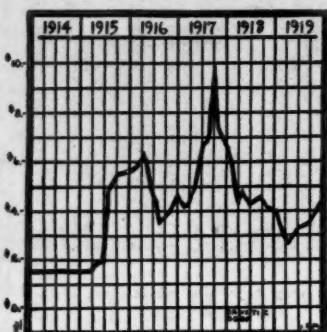
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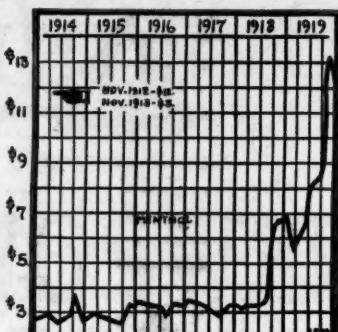
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## FACTS AND FIGURES



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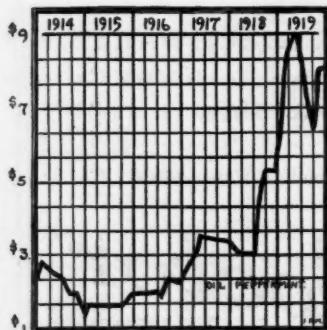
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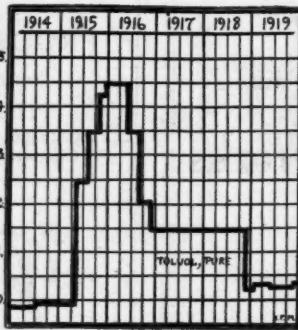
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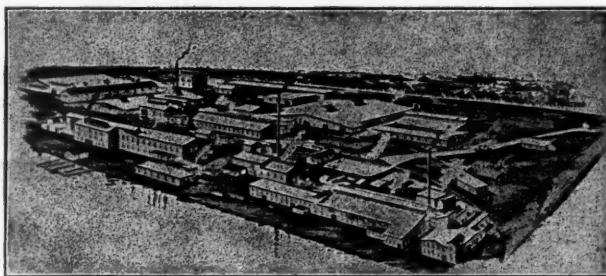
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### JOBBING ETHICS

Does the wholesale druggist efficiently fulfill his proper economic function?

That he has a necessary, valuable place in business is not seriously questioned by any sound thinking man in the industries. Vast quantities of fine chemicals, crude drugs, and essential oils pass directly through his hands as a distributor. Indirectly, even greater quantities of these raw materials are handled by him in the form of pharmaceuticals, toilet preparations, and proprietaries. He, indeed, plays an important part in placing the products of the drug and chemical industries into the hands of their ultimate consumers.

Periodically, the question is asked whether or not he is rendering this service, upon which he himself places such great stress, promptly, efficiently, and economically.

The question of his services to the retail druggist and to the maker of branded advertised goods, be it a tooth brush, a hair tonic, or a laxative, is quite aside from the question of the services he renders the manufacturer of standard fine chemicals or of ethical medicinal specialties. In the latter cases, there is a more important economic function in the distribution of basic products manufactured by a key industry and a plain moral obligation touching the ethics of the profession of pharmacy. Fine chemicals and ethical specialties both reach the consumer principally through the prescription of the physician. Substitution on the part of a retail pharmacist is the worst crime which he can commit. Unless the jobber promptly fills the retailer's orders for these goods, is he not an accessory to such a crime?

Many complaints are made by chemical manufacturers that the drug jobber is lax—to put it mildly—in this branch of his service. Specific cases where wholesalers, with certain ethical specialties in their stock rooms, have reported to retailers that these identical goods were not only out of their stock, but also unobtainable from the manufacturer or sales agent, have recently been brought to our attention, and in every instance, the ultimate defense of the wholesaler has been that it does not pay him to bother with goods the sale of which is so limited.

The jobber asks for more pay; that is, for larger discounts. He defends the shortcomings in his service by charging the manufacturer with unwillingness to pay for the service he renders.

The manufacturer maintains that he cannot afford to pay more for the very faulty service which he is receiving. For a bigger discount, he must have a more perfect service, and he says that ex-

perience gives him no reason to believe that he would get it.

The N. W. D. A. is meeting next week in Cincinnati. It might well give a thought to the way its members handle ethical medicinal preparations. This is a problem of theirs which is quite distinct from the sale of patent medicines or sundries, or toilet articles. It is a problem that has a broader economic significance, and one which has a very serious ethical aspect.

### THE SOUTH FOR PROTECTION

Representatives of the cottonseed oil industry, the graphite industry, cattle, sheep and goat interests, peanut growers, lumber manufacturers, and sugar, rice and cotton growers met in New Orleans, last week, and formed a Southern Tariff Association and demanded in the resolutions adopted at the convention adequate protection for Southern products against Asiatic and European competition. The movement is general throughout the South. It is not a political movement and politicians are not to be allowed to make capital out of it. Chambers of Commerce and commercial organizations are back of the present agitation.

The Governor of Louisiana, John M. Parker, is among the leaders in the economic revolution which is in progress, and others who are directing the fight for Protection are Arthur D. Parker, president of the New Orleans Association of Commerce, who was president of the National Wholesale Druggists Association in 1919, John H. Kirby, of the Kirby Lumber Co., Houston, Tex., G. W. Armstrong, a planter of Natchez, Miss., Jos. E. Ransdell and Edwin Broussard of Louisiana, and Hoke Smith of Georgia.

The graphite industry in Alabama flourished during the recent war, but when the world shipping routes again opened, Ceylon, which employs cheap labor, flooded the American market with graphite. Madagascar shipments are coming in freely, and although the American product is equal to the best foreign graphite, the industry here is at a standstill owing to the competition from abroad. Oilseeds from the East are coming in such quantities that American growers find no market for the crops grown here, in spite of the long haul. The cheap labor of China and Japan makes it possible to land the seeds here at prices less than the cost of production in this country.

With the development of the resources of the South and the attempt to establish new industries the tariff question is forcing itself into the situation and Southern Congressmen find it advisable to heed the demand for protection. The issue is likely to strengthen the forces supporting the Longworth bill. If the Southern interests want protection for cottonseed, peanuts, and graphite their representatives are likely to aid the passage of other tariff legislation in order to further the South's welfare.

A well-known broker entered the office of a likewise well-known dealer. The former carried in his hand an order for ten barrels of acetanilid. Three

salesmen waiting in the ante-chamber, saw, recognized and read the order. In his attempt to escape during the ensuing tumult, the "well-known broker" lost his collar and part of his coat while other casualties included sixteen feet of office partition. All three salesmen were ex-service men and attribute their ability to obtain any orders at all at the present time solely to the wonderful rough and ready training of the great American Army mess-hall.

Cotton prices have dropped somewhat lower than the growers in the South believe should have happened. The profit, they indicate, will not be large enough, in fact, they are liable to stand a loss if the drop continues. The thought is horrible! But—practically every house in the chemical and drug industries is not only liable to lose money but actually has been losing money for over two months, taking losses right and left in a falling market. And have they squealed? Nary a squeak! While these cotton fellows are howling like a lot of "ballyhoos" because they are likely to lose money.

Remember the time when it used to be a genuine battle over the phone to get a price firm for a couple of hours? Oh! yes. About a year ago. Fond memories. To-day it's a cinch to get a price firm for a couple of weeks vacation and when you get back the seller will give it a hair-cut and shave in addition for fear that you may not think as much of it as you did before you went away.

American exporters in all lines of trade are reminded that American trade-marked articles going into Great Britain must bear the words "Made in U. S. A." or equivalent indication of the country of origin, articles not bearing indication of the country of origin being liable to seizure and confiscation.



If you are looking for Ideas, Pep, Help and Encouragement, go to the Convention.

# The Outlook for Crude Drug Prices

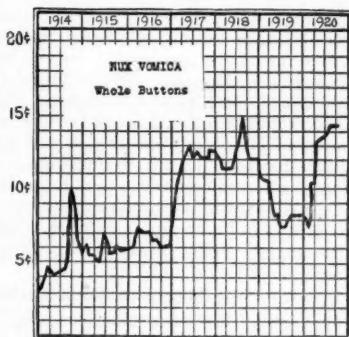
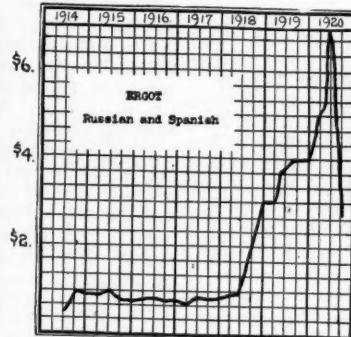
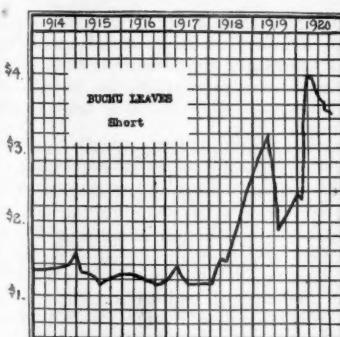
*Domestic Collections Short with Higher Prices Anticipated, while Low Exchange Rates Permit Concessions in Imported Items*

WHEN reports from districts in the American collection centers for crude drugs, said early in the summer that the quantities of botanicals being collected were considerably below normal, buyers discounted the stories as "bull propaganda" and held off to await the fall of prices. Now that the middle of October is here and they are still listening for the crash of falling prices, dealers in the big cities are beginning to realize that they have fooled themselves. With a limited number of exceptions, prices for domestic botanical drugs are evidently not going to come down, while on the other hand, indications point to higher prices before the winter is over. Looking at the entire drug and chemical

**THE PRICE CHARTS**  
*Attention is directed to the accompanying diagrams which have been prepared for a comparative study of six items which have attracted considerably more than passing notice at some time in the last two or three months. Buchu and Nux Vomica are marked exceptions to the general trend of imported botanicals, the tendency being upward. For their general interest or startling behavior, ergot, cantharides, rhubarb root and senega have also been selected.*

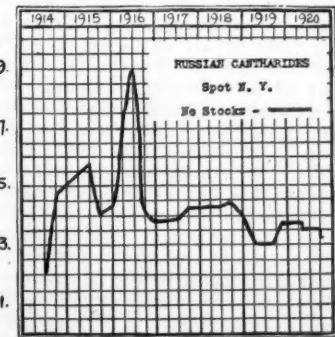
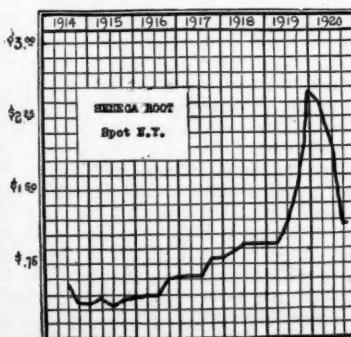
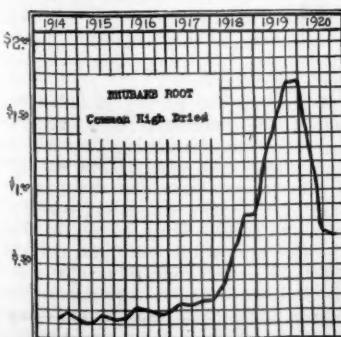
Almost diametrically opposite the American drug group stand the foreign botanicals. Europe, Africa and Asia are contributing to the cheap roots, herbs and the like which are pressing for sale on this market. To base an opinion on the offers out of the big shipping points in foreign markets, the stocks of drugs from other countries are in far greater supply than are American products

and at the same time, the actual cost of collection has been far less than of the drugs gathered in this country. The relative positions of American labor when compared with the foreign and the ratio of European exchanges in the United States are sufficient explanations as to why foreign shippers are so anxious to dispose



industries as a whole, not one single group stands out to-day with the evident solidity and strength which characterizes American crude drugs. With the bottom falling out of most markets, domestic botanicals are distinctly firm and likely to be for some time to come.

of their goods in the American market. In short, this market is flooded with foreign botanicals, of course excluding a few prominent exceptions, and offers for new shipments are being received in large numbers at cut-throat prices. From this situation, dealers here assume



that this winter will see the majority of foreign drugs selling at lower prices.

#### The Labor Situation

The big factor in the tightness of American drugs is the labor situation. For the past five years, the field of crude drug gathering has been neglected by labor. War-time employment in munition plants, in shipyards and in a myriad of other manufacturing lines, weaned a large portion of the labor element away from the collection districts to the industrial centers. At the same time, high wages and general prosperity made it more or less unnecessary for the women and children to do the gathering as the men earned sufficient. Reports indicate that prohibition has also been a factor in reducing the number of women and children forced to gather roots and herbs for a livelihood. Thus during a five-year period, the available labor in the domestic crude drug gathering has degenerated into a sort of Authorities agree that nothing less than a protracted period of unemployment in the large industrial centers will force the migration back to the country. Where crude drug gathering has degenerated into a sort of sideline—a "pin money" proposition—it will then resume a position as a regular occupation.

During the entire period of the war in the portions of Europe, Africa and Asia not touched by the actual fighting, the civilian populations continued the collection of botanicals as has been their habit for years. Where it was possible, shipments to the usual consuming markets were made but where it was not, large accumulations were built up to await the arrival of peace. With the end of the war, the drug gatherers of Europe settled back into their old pre-war places, as the lure of industrial centers had not been felt to as great an extent as in the United States. Drawing on these war-time accumulations and with the assistance of an almost normal gathering organization throughout Europe, it is not surprising that the merchants of Hamburg are now in a position to offer large lots of almost pre-war dimensions. In Europe to-day general economic conditions are very bad. Where labor in some sections is arrogant to the extreme, in other districts it is "hard-up" and drug shippers are evidently experiencing little difficulty in obtaining workers to gather the needed products.

#### Influence of Low Exchange

Of course, with a product costing three, four or ten times what it did before the war, Hamburg can to-day under-sell pre-war figures in American money owing to the rate of exchange. The normal value of a mark is about 23c while to-day in New York, marks can be purchased for 1½c each. Thus a figure of 14c or 15c on buckthorn bark out of Hamburg at present rates means about 9 marks which have a normal value of over \$2.00 a pound. In Germany a mark is a mark and although prices are high, it will buy the worth of a mark. Hence when shippers abroad quote to American houses in dollars and cents, the prices seem very low, but when the rate of exchange is figured out, it is evident that the primary market figure in nine cases out of ten is unusually high and not as near normal as the price in American money might lead one to believe. The same is true of French exchange. Celery seed named at 16½c c. i. f. to-day means over two francs in France where a 17c figure a few years ago meant less than one franc to the French shipper. Russian cantharides are offered for shipment from Hamburg at \$2.00 c. i. f. and quoted in terms of American money. This means more than 130 marks a pound which is a ridiculously high figure judging on a pre-war basis. At the same time goods quoted out of Japan where a yen is worth 51c as compared with 49.9c par, would naturally have a difficult time in competing in the American market

against goods from Trieste, for instance, with Italian lire worth about 4c each as compared with 19.3c par. The exchange situation gives to American consumers of foreign products an unusually good opportunity to buy cheaply but places them at a corresponding disadvantage in selling their products in European markets.

#### Weather Conditions Adverse

Besides the labor situation in the American collecting districts, two other factors are worth a brief note. Unusually heavy rains this summer extending over a period of some weeks at the height of the gathering season in the Southern districts, reduced quantities normally obtained far more than was at first believed. Not only were the gatherers able to do little or nothing during the rain but the country was inundated for some time following the rainy period. Of course in the Northwest, this condition did not apply. The other factor was the late spring throughout the Eastern United States this year which retarded vegetation materially. Both of these conditions combined with the small number of people who brought roots and herbs in to shippers in the collection districts, are the chief reasons advanced by the shippers for believing that quantities of roots and herbs held in primary markets are below normal and will command fancy prices when consuming demand picks up this winter as they expect.

#### HERCULES CO. ANSWERS DU PONT SUIT

The Hercules Powder Company has filed its answer to the suit of E. I. du Pont de Nemours & Co., who sought to restrain the Hercules company from using patents upon an alleged improvement in pyroxylin solvents by Frederick Kniffin and Maurice V. Hitt. Francis C. Lowthorp, solicitor for the Hercules company, with John C. Pennie, Frank S. Busser and Harold S. MacKaye of counsel, contends that Kniffin and Hitt were not the inventors of the improvements, and that the patents are void because the improvements were without novelty or patentability.

It is asserted in the answer, which has been filed in the District Court of the United States for the District of New Jersey where the suit in equity was filed by the Du Pont company, "that long prior to the filing dates of the letters patent the alleged inventions were openly, notoriously, and widely made, used and sold by numerous manufacturers of pyroxylin solvents and users of pyroxylin in defiance of plaintiff's alleged exclusive rights and without objection by the plaintiff, and that plaintiff has acquiesced in such manufacture, use and sale and has unreasonably delayed the bringing of suit for infringement, and by its acts and omissions is estopped in equity from now asserting or enforcing its alleged rights."

#### LABOR STATISTICS IN CHEMICAL INDUSTRY

(*Special to DRUG AND CHEMICAL MARKETS*)

Washington, D. C., Oct. 19—The Bureau of Labor Statistics of the Department of Labor has just issued a bulletin containing a summary of the wages and hours of labor in various industries. In connection with the chemical industry the report says:

"Under this general heading the survey included establishments engaged in the manufacture of general chemicals, explosives, pigments, fertilizers, food products, petroleum products, soap, and sugar. The earliest schedule included in the survey was for the payroll period ending Sept. 25, 1918, while the latest was for the period ending May 31, 1919. Only 13 of the 166 schedules included in the tabulation were for periods antedating Jan. 1, 1919. No part-time pay rolls were included. During the period covered by the survey the activity of the industry in general was diminishing. In some branches the contraction was quite rapid owing to the cancellation of war contracts."

## Trade Notes and Personals

Morris Edelman, an importer and exporter of San Francisco, has returned from a tour of Siberia, China and Japan.

The New Brunswick (N. J.) Chemical Company is now finishing the equipment of a large modern plant at Newark, N. J., where its various dyestuff interests are to be consolidated. The New York office of this concern is at 326 Broadway.

Langdon B. Hedrick, who was the Rogers-Brown representative at Shanghai, China, was a recent arrival at San Francisco. He states that stocks there are closely cleaned up, but that it will be some time before the Yokohama branch can clean up its affairs.

Richard Sheldrake, who for some years has been connected with the Kalbfleisch Corporation as secretary, director and sales manager, has resigned. Mr. Sheldrake will become vice-president of D. A. Himadi & Co., chemical dealers and jobbers, with offices at 51 Maiden Lane.

Herbert S. Bailey has resigned his position with E. I. du Pont de Nemours & Co., where he has been in charge of research paints, varnishes, lubricating and heating oils, to accept a position as assistant chief chemist in charge of research work of the Southern Cotton Oil Company, Savannah, Ga.

In connection with the special bill which was passed at the last session of Congress allowing the War Department to sell to farmers and others, some of the Department's surplus stock of nitrate of soda for fertilizer purposes, it is announced that the Department has sold only 75 tons of the nitrate, of which one order of 50 tons went to one firm.

Alex C. Fergusson, Jr., with offices in the Drexel Building and laboratory and warehouse at 17 and 19 So. Orriana street, Philadelphia, has been appointed selling agent in that district for the line of textile oils, sizings, and softeners, manufactured by L. Sonneborn Sons, Inc. H. A. Nichols of Alex C. Fergusson, Jr., will have charge of sales and service.

The National Aniline & Chemical Company, Inc., has just issued a book of Dyers' Formulae, giving the recipes that have been worked out in its laboratories for matching the shades that have been standardized by the Textile Color Card Association, and shown in the Fall 1920 Color Card. The recipes, with the technical information given are for silk, cotton, wool, and leather, and will be found useful to dyers engaged in coloring any of these materials. The volume comprises twenty-four pages, with several blank sheets for notes and memoranda. It is bound in a substantial cover, and is of a size convenient for the pocket.

Imports at San Francisco during the last week of September included the following: On the steamer Nile, from Hongkong, 1,809 packages Chinese medicinal wine, 125 bales cassia and 100 cases peanut oil; on the steamer Orator, from Antwerp and London, 1,000 tons chalk, 80 tons glue and 270 barrels linseed oil; on the steamer Kronprinsessan Margareta, from Gothenburg, 143 barrels powdered chalk; on the steamer Colusa, from Ceylon, 6,761 bags bonemeal and 50 bags tapioca; on the steamer West Neris, from Yokohama and Hankow, 4 cases camphor, 5,212 bags copra cake and 2,000 barrels nut oil; on the steamer West Inskip, from Manila, Hongkong and Shanghai, 2,415 bags bonemeal, 1,235 bags copra cake, 672 tons soya bean oil and 21 tons peanut oil.

## LICENSE APPLICATIONS FOR DYE IMPORTS SUBJECT OF SPECIAL MEETING ON OCT. 26

War Trade Board Disposed to Help American Manufacturers—Proposal By Drug and Chemical Markets to Be Discussed—Benefit of Publicity Plan  
(*Special to DRUG AND CHEMICAL MARKETS*)

Washington, Oct. 18.—More prompt information on the license applications for importations of coal-tar chemicals and dyes by the War Trade Board, will be discussed at a joint meeting of the Board and its Dyestuff Advisory Committee, to be held in Washington on Tuesday, Oct. 26, a call for which has been issued by F. S. Dickson, Acting Chief of the War Trade Board Section of the Department of State.

The proposal to be made to the Board by Mr. Dickson is substantially that which was first called to the attention of the Board and the industry at large by DRUG & CHEMICAL MARKETS; that if the name of the applicant for a certain type of chemical or dye were not made public, there could be no injury to them, and the information as to the specific items required by our consumers would be of great value to American manufacturers in enabling them to meet the supply. Furthermore, such knowledge would prevent foreign manufacturers from demoralizing the markets here, as has been done in the past.

The market for fine chemicals and dyestuffs of coal-tar origin has been considerably upset for the past six months by the importations of items already manufactured in this country. An effort is to be made to protect the American manufacturer by pre-knowledge of these imports, and, at the same time, give the consuming industries that protection which they require in holding confidential the information regarding their specific requirements.

"We are very anxious," said Mr. Dickson to a representative of DRUG & CHEMICAL MARKETS, "to foster in every legitimate way the American manufacturer, and we appreciate that the bringing in of any coal-tar products made, or ready to be made, in this country defeats the interests of the Longworth Bill. The interim control of this type of products, which has been placed in the hands of the War Trade Board is being exercised as closely as possible to the provisions of that measure, as was provided by Congress at the time this control was established. We appreciate that, in the practical working out of this plan, the importation of dyestuffs or chemicals, which are already manufactured in this country in sufficient quantities of standard quality and which are for sale at a reasonable price, defeats the very purpose of this control. We are naturally anxious to fulfill the function which has been placed in our charge as efficiently as possible for the protection of the American manufacturer, provided, of course, that we, in no way, violate the confidence of legitimate American consumers who make application to us for import licenses."

The War Trade Board, although the appropriation for their work was drastically cut to \$25,000 by the last Congress, has prepared an itemized statement of chemicals and dyestuffs for which licenses have been granted for the calendar year ending July, 1920. This will be published shortly. The new proposal will be that applications for licenses be published periodically and promptly in order that American manufacturers may protest against the importation of goods which they are ready and able to supply.

Messrs. Magnus, Mabee & Reynard, Inc., manufacturers and importers of essential oils and fine drugs, are to be represented by P. C. Magnus, at the 46th annual convention of the National Wholesale Druggists' Association, at Cincinnati, next week.

**OIL AND VARNISH CONVENTION OPENS**  
(*Special to DRUG AND CHEMICAL MARKETS*)

St. Louis, Oct. 19.—The National Paint, Oil and Varnish Association opened its 33d annual convention with about 700 delegates registered. The first session was devoted to reports of the officers. Among the delegates from New York and the East are:

New York—President Edward J. Cornish and N. B. Gregg, of the National Lead Co.; H. G. Sidebottom and C. P. Brown, of the Barrett Co.; J. J. Mangin, of the United Color & Pigment Co.; H. M. Howard and R. O. Walker, of Thibault & Walker; H. S. Chatfield, of the Kasebier-Chatfield Shellac Co.; G. C. Lewis, of the L. Martin Co.; G. V. Lincoln, of the National Sales Co. Inc.; F. P. Cheesman, of the Cheesman-Eliot Co., Inc.; W. E. Harmon, of the Harmon Color Works, Inc.; Emil Hoefer, of Prince's Metallic Paint Co.; H. W. Pearson of the Muralo Co.; M. H. Sander, of the Republic Co.; G. M. O'Brien, of the Keystone Minerals Co.; J. B. Bouck, Jr., of Pratt & Lambert, Inc.; R. C. Cox, of the Krebs Pigment & Chemical Co.; H. Gates and H. G. Russel, of the Eagle-Picher Lead Co.; J. R. M. Klotz, of the Newport Chemical Works, Inc.; Eugene Merz, of the Heller & Merz Co.; W. A. Patterson, of G. W. S. Patterson & Co., Inc.; H. A. Vincent, of the Continental Can Co., Inc.; H. F. Colecord, of the American Can Co.

Philadelphia—W. A. Borland, A. F. Wetherill, G. B. Heckel, L. T. Beale, H. S. Felton, W. R. Bullock, C. D. French, W. E. Maston, H. R. Dowdy, D. G. Yarnall, C. H. Parson, S. B. Woodbridge and W. A. Smiley.

Boston—M. G. Bennett, H. D. Mack, M. E. Vose, J. B. Lord, H. A. Hall, G. C. Morton, E. C. Morton, G. L. Gould and W. H. Kirkpatrick.

Other Cities—A. S. Jackson and F. H. Coarfooss, Baltimore; R. Scarfe, Toronto; H. J. Greene and H. W. Rice, Providence, R. I.; W. H. Burdett, Glens Falls, N. Y.; R. Gutelius, Harrisburg, Pa.; F. Bownes, Lynn, Mass., and H. M. Hodges, New Haven, Conn.

**OFF FOR CINCINNATI SATURDAY**

The train carrying New York delegates to the National Wholesale Druggists convention, Cincinnati, will leave New York on Saturday, at 4:04 p.m., Eastern Standard time.

The train arrives in Cincinnati Sunday morning. It is made up of two compartment cars and two standard sleeping cars out of New York, with one standard sleeper that leaves Washington at 4:10 p.m., containing the Richmond, Washington and Baltimore delegates. In the party are Mr. and Mrs. C. W. Whittlesey and daughter, of New Haven, Conn.; Mr. and Mrs. A. Wasserscheid, of New York; Mr. and Mrs. Chas. E. Orcutt, Mr. and Mrs. C. M. Badgley, of Boston; Mr. and Mrs. F. L. Stallman, of New York; Mr. and Mrs. B. T. Bush, of New York; P. E. Anderson, W. Benkert, Mr. and Mrs. Frank Kirby, Mr. and Mrs. C. J. Kiger, Mr. and Mrs. F. E. Watermeyer, of New York; Mr. and Mrs. Harry Stebbins, Mr. and Mrs. J. H. Velsor, F. E. Holliday, C. H. Waterbury, Mr. and Mrs. Romaine Pierson, A. Josephs, Evans, A. Stone, Howell Foster, Percy Magnus, Mr. and Mrs. C. S. Littell, F. H. Wrede, H. J. Schnell, A. Major, A. M. Stewart, M. Bakst, Edward Zink, Mr. and Mrs. Chas. H. Fuller, Thos. A. Hedley, of New York, and Mr. and Mrs. R. R. Zane, of San Francisco.

In the Philadelphia party will be Captain W. V. Smith and wife, Mr. and Mrs. F. L. Bodeman, Mr. and Mrs. Milton Kutz, Mr. and Mrs. John Maloy, Mr. and Mrs. Chas. E. Hires, Mr. and Mrs. P. J. Ford, Herbert and Donald McIlvaine, A. Hillis, J. M. Bullock, N. K. Conderman, Adam Pfrom, Dr. and Mrs. A. Miller. The Baltimore delegation includes Donald N. Gilpin, H. H. Robinson, and Miss Mazora Robinson, G. M. Armor, H. H. Gritzan. The Washington delegation includes J. F. Pickett and W. L. Crounse.

**The Editor's Correspondence**

Editor, DRUG & CHEMICAL MARKETS:

I have read with considerable interest in the current issue of your paper, the discourse on the "Legality of Chemists' Contracts" by Joseph Osmun Skinner of the New York Bar. The question of contracts between chemists and corporations employing them has always been fraught with a certain amount of difficulty for the reason that the chemists are inclined to look upon such a contract as merely a guarantee of a certain salary for a certain period. A contract in my mind should be a more weighty instrument than this mere question of time of employment and compensation therefor. Dr. L. H. Baekeland of Yonkers has put a great deal of thought into this matter and succeeded in drawing a contract between himself and his research chemists that seemed to be equitable on both sides.

For my own part, I know of no better way to handle it than the way he has arrived at. I am inclined to think that the discussion as set forth is a contribution to some thoughts on the matter, but I doubt if any definite conclusions are reached from it as yet. I think that a discussion of it by chemists and employers of chemists will tend to clarify what is now a very murky situation.

New York, Oct. 18.

J. R. M. Klotz.  
Newport Chemical Works.

**COST OF LABOR TURNOVER**

The average yearly rate of labor shift or "turnover" in 1920 for skilled and semi-skilled factory workers in New York City is 125 per cent, and for unskilled factory workers 265 per cent, according to reports made to the Industrial Bureau of The Merchants' Association by 42 manufacturing concerns representing 15 different industries and employing a total average force of 41,375 workers.

In about two-thirds of the plants studied the turnover lay between 100 and 250 per cent, but the total range for all plants extended from a minimum of 162.3 per cent to a maximum of 338 per cent.

The cost of replacements, according to the testimony of employers, varies from \$10 for unskilled to \$250 for highly skilled workers. A fair average for semi-skilled employees is \$50 or more.

Imports at San Francisco during the first week of October included the following: On the steamer Nehalem, from Topolobampo, 155 bags guano, 10 drums magnesia, 293 sacks sulfide and 130 sacks herbs; on the steamer Haleakala, from Calcutta and Manila, 5,904 bags bonemeal, 804 drums coconut oil and 684 tons coconut oil in bulk; on the steamer Ecuador, from Hongkong, 2,400 sacks bean cake, 276 packages vegetable oil and 750 tons coconut oil; on the steamer Peru, from Copenhagen, 530 barrels whitening; on the steamer Tofua, from Australia, 77 cases vanilla and 1,216 barrels coconut oil; on the schooner Annie M. Campbell, from Haapai, to Burns, Philp & Co., 612 tons copra; on the schooner Irene, from Levuka, to Wolf, Kirchman & Co., 844 tons copra.

Application has been made for a charter of incorporation of W. H. & F. Jordan, Jr., Manufacturing Co., 218 N. Delaware avenue, Philadelphia, by Canfield Jordan, William J. MacBride, M. C. McGrath, and Augustus W. Jordan, manufacturers and dealers in chemicals.

E. R. Dick & Co., brokers, have put out an interesting sheet for circulation abroad giving specifications, packing, and New York and c.i.f. prices to English ports of various exportable chemical products which they handle.

### Of Interest in the Trade

A gross sales tax was urged by speakers at a meeting of the Broadway Association, on Friday last.

The American Institute of Chemical Engineers will hold a convention in New Orleans beginning Dec. 6.

Herman Rainalter, for some time superintendent of the dye department of the Calco Chemical Co., Bound Brook, N. J., has severed his connection with that company and is now connected with the Victor Chemical Co., of Chicago.

John F. Queeny, president of the Monsanto Chemical Co., St. Louis, who purchased the Southern Hotel, a few months ago, has offered to expend \$750,000 in remodeling the building for the use of architects, contractors and material men.

William C. Redfield, former Secretary of Commerce, was elected president of the American Manufacturers' Export Association, at the eleventh annual convention at the Waldorf-Astoria, last week. A. W. Willmann was elected secretary.

At an early date, Ungerer & Company, essential oil importers, at present located at 124 West 19th Street, New York, will move to new and larger quarters in the Ungerer Building, 110-112 West 26th Street, where about double the space at present occupied will be available for the needs of the company.

Ralph L. Fuller & Co., Inc., announce that they have been appointed international sales agents for the Hoshi Pharmaceutical Company of Kobayachi, Tokio, Japan, manufacturers of quinine, quinine bisulfate, quinine hydrochloride, caffeine, alkaloid, atropine sulfate, cocaine hydrochloride, morphine hydrochloride and other chemicals.

W. E. Monroe announces the discontinuance of the New York office of Monroe, Leon & Tees, Inc., and the formation of a new firm under the name W. E. Monroe & Co., with offices at 25 Beaver street. The firm will operate as brokers of vegetable oils, chemicals, and Oriental produce. Mr. Monroe has associated with him J. A. Higgins, Jr., and Will S. Patee.

John Clarke & Co., under date of October 16 say of seeds and spices: There is liquidation here and there, but like the buying for consumption, it is in small units; the selling pressure is little more influential as to values than the timid absorption by the trade for current needs. There is not a great bulk to be liquidated, stocks in first hands being worn down by this time in most grades to very insignificant volume.

### CHEMICAL SOCIETY MEETS FRIDAY

The first regular meeting of the New York Section of the American Chemical Society during the current season will be held in Rumford Hall next Friday evening, the session to be in the nature of a welcome to W. A. Noyes, president of the society. The American Section of the Societe de Chimie Industrielle will participate in the meeting.

The nominating committee appointed last June will report their nominations for officers, executive committee and councillors of the section for the year 1921, and a representative of the council will report on council actions at the general meeting of the society in Chicago last month.

President Noyes is scheduled to speak on the "Foundation for Chemical Development," while H. E. Howe, of the National Research Council, will tell of the work of that organization in connection with chemical development. The evening session will be preceded by the usual informal dinner at the Chemists' Club.

### GERMAN POTASH SALES IN 1919

Syndicate Sold 4,153,500 Tons of Potash Salts Compared With 4,834,000 Tons In 1918—Shipments to the United States Steadily Increasing—Germany Consumes Less

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Oct. 1.—The report of the German Potash Syndicate for 1919 just published, says the total quantity of potash salts sold amounts to 4,153,500 tons (798,700 tons of potash) while the figures for the year 1918 were 4,834,000 tons and 985,400 tons, respectively. As compared with the returns of 1917, there has been a decrease of 189,200 tons of potash while the discrepancy between the turnover of 1919 and 1913 is even more pronounced, the difference being 293,000 tons. In the table below are given the figures of the various potash salts shipped during 1919:

|                             | Intrinsic weight<br>tons | Potash<br>tons |
|-----------------------------|--------------------------|----------------|
| Kainite and sylvinitc       | 2,827,000                | 367,500        |
| Potash fertilizer salt, 20% | 606,500                  | 124,200        |
| Potash fertilizer salt, 30% | 25,400                   | 7,770          |
| Potash fertilizer salt, 40% | 175,300                  | 71,800         |
| Potassium chloride, 80%     | 421,300                  | 213,000        |
| Potassium sulfate, 90%      | 18,490                   | 9,000          |

The sales distribution of potash ( $K_2O$ ) in the principal countries is shown in tons in the following table:

|                             | 1913    | 1916    | 1918    | 1919    |
|-----------------------------|---------|---------|---------|---------|
| Germany                     | 690,000 | 713,450 | 846,200 | 627,000 |
| Great Britain               | 29,000  |         |         | 10,120  |
| Holland                     | 43,000  | 56,000  | 24,450  | 30,200  |
| Scandinavia & Denmark       | 33,600  | 45,600  | 44,100  | 55,100  |
| United States, incl. Hawaii | 24,360  |         |         | 60,000  |

The consumption of potash in Germany was reduced by 219,000 tons. The first shipments to Great Britain, the United States and overseas countries took place in July and exports have been steadily increasing since then. Sales to Russia, Austria-Hungary, Luxembourg, Poland and Switzerland receded considerably but were partly balanced by an increase of exports to Holland, Scandinavia, and Denmark. To these should be added as the first buyer after the war the United States with 69,000 tons, Great Britain with 10,120 tons, Spain with 350 tons and various overseas countries with 1,600 tons.

With the re-establishment of commercial relations with former belligerent countries, export sales showed an increase from 139,700 tons in 1918 to 172,200 tons and the increase might have been even more marked but for the decline in exports to Austria, Belgium and Poland. Other factors responsible to a certain extent for the comparatively small increase in exports were lack of tonnage as well as port and river transport difficulties. The political and economic revolution in November, 1918, did not fail to react heavily upon production as well as on transportation, the effects still being felt in February, 1919. While inland shipments showed an improvement in March, supplies were still far from being sufficient to cover the needs of the German farmers. The railroad workers' strike as well as the temporary restrictions on traffic during June were responsible for renewed drop in sales. Thereafter the situation improved excepting the months of November and December when the use of freight cars for shipment of fertilizers was restricted to 4 days a week in order to accelerate the transportation of urgently required stocks of foodstuffs and coal.

The Chemical Club of Philadelphia has been formed to promote closer relations in the trade. Weekly luncheons will be held. The membership will include manufacturers and dealers in chemicals and dyes. The chairman is S. H. Hirsch, of the National Chemical Products Co.; secretary, R. B. Geyer, of the Jordan Import Co.; and treasurer W. Thorne, of Innes, Speiden & Co. Meetings are scheduled for Mondays at the City Club. About 50 firms have joined.

## HEAVY CHEMICAL PRICES IN TOKYO

(Special Correspondence to DRUG &amp; CHEMICAL MARKETS)

Tokyo, Japan, Sept. 12.—Caustic soda has begun to assume a very firm tone owing to the appearance of buyers who propose to re-export it to Europe. They are, however, experiencing much difficulty in collecting goods of uniform brands. Much of it is being placed as security at prices much higher than those prevailing at present.

Rosin, which fell to 12 yen per 100 kin during May, has since been exported to the South Seas and South America, but as something like 100,000 barrels were imported last year, a big stock is held and the market is very dull.

Sodium bicarbonate has risen by 10 per cent; the American article in bags is quoted at about 10 yen and both H. B. and Crescent brands are quoted at 10.50 yen.

Carbolic acid experienced a great slump owing to the arrival of a shipment of more than 1,000 tons in April. Its price fell to 23 sen, which was one-third of the price prevailing in March. In July, however, the demand for carbolic acid increased and acid used for disinfecting purposes began to be quoted at 70 sen. The market has been improved further following the passage in the Diet of the tariff revision on dyestuffs, which in the future will be subject to an import duty of 35 per cent ad valorem. Some of the sulfur dye factories have begun to open up since the passage of this measure and the demand for carbolic acid has revived.

Unprecedentedly large stocks of mercury existed in April and May; since then something like 3,000 grams have been re-exported; 1,000 grams more are to be exported soon. These re-shipments have so reduced the stocks that quotations, which had remained at 220 yen per 100 kin for many weeks, have now risen to 250 yen @260 yen, with prospects of a further rise.

Soda ash has risen by 50 sen in the last few weeks, being quoted now at 6.40 yen. This is a decline of 3 yen from the highest price reached last March, but the market seems to show signs of steady improvement.

Shellac has risen from 200 yen per 100 kin to 260 yen on account of steady buying in the Kwansai districts, but as the stock is limited and the quotations abroad firm, it is expected that the price will go beyond 300 yen.

Nitric acid is holding around 15 yen per 100 pounds and this stationary condition is a sign of improvement, it is declared. Muriatic acid has halted around the level of 8 yen per 120 pounds. Sulfuric acid is not in great demand and 66 per cent is quoted at 12 yen per 200 pounds and 65 per cent at 11 yen per 200 pounds. This acid maintains its price level on the market's belief that these figures are the lowest possible under present conditions.

Potashes, some of which had begun to improve on the paucity of prompt cargo, have once more begun to show signs of immobility. Bichromate of potash stands at 50 yen per 100 pounds. Potassium prussiate yellow is holding around 90 yen per 100 pounds. Potassium muriate, which match manufacturers have failed to back up as strongly as was expected, is coming down again. Offers are made at 34 yen per 112 pounds.

Bichromate of soda, which reached 47 yen per 100 pounds recently, is again offered at 46 yen. Almost all miscellaneous chemicals are stationary, and it is believed they will stay in this condition for some time to come.

The stock of bleaching powder has been reduced greatly as the result of the curtailment of production resorted to by the manufacturers. This, coupled with repeated inquiries from China and India, has revived the market to some extent.

## Books of Trade Interest

MODERN PULP AND PAPER MAKING. By G. S. Witham, Sr. 8 vol., 600 pp. Chemical Catalog Company, New York.

Mr. Witham's book is very practical and covers the industry in a thorough manner. A perusal of the book suggests that it might have been compiled from a personal notebook containing all the things its author had most trouble in finding for the first time. His long experience in the industry especially fitted him to write a book "that would not be so abstruse and technical as to be beyond the grasp of the average paper maker and which at the same time would not merely skim the surface of the various subdivisions of the art." The insertion of specifications covering the various papermaking machines is a very commendable innovation in the writing of technical books. The subjects covered extend from the primary principles of pulp, through the manufacturing processes and plants to the employment and sales forces and it is indeed remarkable how carefully and intimately each subject is treated. A valuable book for any one connected with the pulp or paper industry and especially valuable to the young man who is learning the game.

DEHYDRATING FOODS. By A. Louise Andrea. 206 pp. 12 mo. The Cornhill Company, Boston, Mass.

Mrs. Andrea, who was one of the pioneers in dehydrating foods for the purpose of conservation, has made a painstaking study of conditions for and results to be obtained by the dehydration of foods and has now presented her observations in book form. The first chapter is given over to propaganda and includes statements from many eminent authorities on foods. The great economies to be effected by her methods are dwelt upon at length and much space is devoted to dispelling the popular notion that peaches, apples and herring are the only materials which lend themselves readily to this means of preservation. A little more than half of the book is devoted to directions for preparing the dehydrated foods, dried according to directions in the other section, for the table. While the subject is no longer new to many the application of the idea in the home or factory has been slow of development and the present volume is published with the idea of placing definite directions covering bushels or tons of food in the hands of those interested. The description of family scale apparatus is particularly interesting.

## REPORT OF THE WAR TRADE BOARD

(Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Oct. 18.—The 1920 report of the War Trade Board, which has just been received from the Government printer, reviews its powers in the control of exports, gives statistics of exports and imports, discusses transportation, the relaxation of wartime control, and the agencies of investigation and research under its control.

A chapter devoted to imports of cinchona bark and quinine from the Dutch East Indies explains the contract made with the Dutch for supplies for the Allies, and the share which the United States received. The unequal shipments during 1918 are said to be due to "the vacillating policy of the Dutch East Indies."

Imports of graphite from Canada, Mexico and other countries during 1917 and 18 are illustrated by a chart. U. S. imports of quebracho wood in 1917 and 18 are also graphically shown. The chart showing imports of nitrate of soda by months from January, 1917, to May 31, 1919, shows the peak was reached in November, 1918, when more than 261,000 long tons were received. The smallest receipts were in May, 1919, amounting to little over 8,000 tons.

## QUOTATIONS ON CHEMICAL STOCKS

| Bid                         | Asked | Bid   | Asked                           |
|-----------------------------|-------|-------|---------------------------------|
| Aetna Expl. ....            | 11    | 12    | Heyden Chem. .... 4 4½          |
| Aetna Expl., pf....         | 67    | 68    | H'k Electro ..... 60 70         |
| Air Reduction ....          | 44    | 45    | H'k Electro, pf.... 60 70       |
| *Allied Chem. & D. ....     | 58½   | 59    | *Int. Agricult. .... 20 21      |
| *Am. Ag., Ch. ....          | 82    | 84    | *Int. Agricult., pf.... 79 81   |
| *Am. Ag., Ch., pf....       | 87    | 90    | *Int. Nickel ..... 18 19        |
| Am. Chicle ....             | 39    | 40    | *Int. Nickel, pf.... 80 81      |
| Am. Chicle, pf....          | 63    | 64    | *Int. Salt ..... 60 62          |
| *Am. Cot. Oil. ....         | 24    | 25    | K. Solvay ..... 75 100          |
| Am. Cot. Oil., pf....       | 64    | 65    | *Mathieson Alk. .... 28 33      |
| Am. Cyan. ....              | 25    | 30    | Merck & Co., pf.... 85 93       |
| Am. Cyan., pf....           | 55    | 65    | Merrimac ..... 76 80            |
| *Am. Druggists S. ....      | 9½    | 10    | Mulford Co. .... 50 55          |
| Am. Glue ....               | 40    | 45    | Mutual Co. .... 150             |
| Am. Glue, pf....            | 68    | 70    | *Nat. A. & C. .... 57 58        |
| *Am. Linseed. ....          | 65    | 67    | *Nat. A. & C., pf.... 89 90     |
| *Am. Linseed, pf....        | 85    | 90    | *National Lead ..... 74 75      |
| *Am. Malt. ....             | 26    | 27    | *National Lead, pf.... 106 110  |
| Amer. Zinc. ....            | 11    | 12    | N. J. Zinc ..... 174 177        |
| *Amer. Zinc, pf....         | 45    | 46    | Niag. A., pf.... 96 100         |
| Atlas Powder. ....          | 135   | 140   | Parke, Davis & Co. .... 117 118 |
| Atlas Powd., pf....         | 75    | 78    | Penn. Salt ..... 65 67          |
| *Barrett Co. ....           | 120½  | 130½  | Procter & Gamble. .... 676 695  |
| *Barrett Co., pf....        | 102   | 103   | Procter & Gam., pf.... 101 101½ |
| British Am. Chem. ....      | 7     | 8     | Rollin Ch. .... 50 60           |
| Butterworth Ind. ....       | 33    | 35    | Rol. Ch., pf.... 80 90          |
| By. Prod. Co. ....          | 94    | 99    | Royal Baking Po. .... 110 120   |
| Carborundum. ....           | 135   | 135½  | Royal Bak. Po., pf.... 82 84    |
| Carborundum, pf....         | 115½  | 116   | Semet S. .... 160 175           |
| Cascan Co. ....             | 40    | 50    | Sherwin-Williams. .... 320 340  |
| Celluloid Co. ....          | 135   | 145   | Solv. Proc. .... 180            |
| Celluloid, pf....           | ..... | ..... | Stand. Ch. .... 90 100          |
| *Corn Products ....         | 84    | 85    | Stand. Ch., pf.... 100 100      |
| *Corn Products, pf....      | 100   | 103   | Swan & Finch. .... 60 70        |
| *Davidson Chem. ....        | 39    | 40    | *Tenn. G. & Chem. .... 9½ 10    |
| Dow Chem. ....              | 235   | 235   | Tex. Gulf, Sul. .... 15½ 15½    |
| Dow Ch., pf....             | 103   | 103   | Union Carbide. .... 59 60       |
| Du Pont. ....               | 218   | 225   | Union Sulphur. .... 100         |
| Du Pont, pf....             | 74    | 77    | *Un. Drug. .... 105 109         |
| *Freeport, Tex., Sul. ....  | 22    | 23    | *Un. Drug, 1st pf.... 45 48     |
| *Freept. Tex., Sul.pf. .... | 91    | 93    | *Un. Dyewood. .... 56 60        |
| *Gen. Chem. ....            | 145   | 155   | *Un. Dyewood, pf.... 94 96      |
| *Gen. Chem., pf....         | 89    | 92    | U. S. Gypsum. .... 100          |
| Grasselli. ....             | 137   | 139   | *U. S. Indus. Al. .... 84 85    |
| Grasselli, pf....           | 95    | 95    | *U. S. Indus. Al., pf.... 93 95 |
| Hercules, Powder. ....      | 205   | 212   | *Va.-Car. Ch. .... 58 59        |
| Hercules, Powd., pf....     | 90    | 93    | *Va.-Car. Ch., pf.... 108 109   |
|                             |       |       | *V. Vivaudou .... 11½ 12        |

\*Listed on New York Stock Exchange

American Linseed's plan of recapitalization, according to brokers who have been watching this situation closely, may be made public some time this week. In these quarters it is said that it should affect favorably the present preferred stock, which is to be exchanged for a first preferred. The new common, it is understood, is to be issued to the new British interests that are buying into the company.

Directors of the Aetna Explosives Co. are considering a proposition to sell the plants of the Aetna to the Hercules Powder Co. There are two factions in the Aetna Company, one which desires to sell the property and another which holds that since the company is on a paying basis it would be well to continue operation for the benefit of the stockholders.

"Canada's Possibilities" is the title of a pamphlet issued by the Royal Bank of Canada, with New York agency at 68 William street. The subjects treated include incorporation of companies under Dominion charter, water power, the Canadian market, Canada's resources, ports and railroads.

The United Drug Company has declared the regular quarterly dividend of \$1.50 a share on the second preferred stock, payable Dec. 1 to holders of record Nov. 16.

The Du Pont Chemical Co. has declared a dividend of ten per cent on the common stock and on the preferred, payable Nov. 5, on stock of record Oct. 25.

The Atlas Powder Co. has declared a quarterly dividend of 1½ per cent on the preferred stock, payable Nov. 1 on stock of record Oct. 20.

The annual report of the Mathieson Alkali Works shows a net surplus of \$616,064, as against a surplus of \$375,052 for the preceding year.

The average offering price of copper is now 16 cents, and even at that figure very little actual business is being done.

## Business Brevities

Exports of copper sulfate from Great Britain during the eight months ending with August amounted to only 17,731 tons, according to a London report. This compares with 29,295 tons in the same time last year.

J. E. Hoblit, for the last eight years treasurer of the Bean Spray Pump Company, San Jose, Cal., has been made manager of the chemical, oil and mining interests of the E. G. Lewis Company, Atascadero, Cal.

The California Ink Co., of San Francisco is having plans prepared for a four-story re-inforced concrete factory building to be erected at Fourth and Camelia streets, Berkeley, an east-bay suburb. The structure will cost about \$125,000.

Paint in which suitable proportions of zinc oxide are used covers more surface than lead alone, according to leading paint technologists. Zinc oxide also imparts toughness to the film, reduces chalking, gives the coating improved lustre, preserves the oil and lessens the danger of fading.

The Emporia Potassium Phosphate Co., Emporia, Va., has purchased feldspar land in Warren county, North Carolina, estimated to contain 10,000,000 tons of feldspar, and 150 acres of phosphate land in Tennessee containing 900,000 tons of brown phosphate rock. The company is capitalized at \$500,000.

The plant of the Mason By-products Company at Sausalito, Cal., was badly damaged by fire on Oct. 5, the loss being estimated at \$150,000. Before the war the plant was a whiskey distillery, but has been used of late in the manufacture of alcohol, potash and stock feed. The alcohol department was saved.

Construction engineers are giving considerable attention to the use of metal laths in buildings exposed to fire hazards, and the Associated Metal Lath Manufacturers, Inc., are co-operating with the U. S. Bureau of Standards, the Underwriters' Laboratories, and building departments in cities, in making fire tests. W. B. Turner treats the subject exhaustively in "General Fireproofing," published at Youngstown, O.

In answer to an inquiry from a reader the "New York Tribune" says of the stock of Vivaudou, Inc.: "We have no report of the Vivaudou Company since May. It was stated that during that month the net earnings were about \$140,000 before taxes, equal to an annual rate of \$5.60 a share. Subsequent earnings may show a change. You must bear in mind that many companies made larger profits as a result of high prices for their products. It may be that deflation in prices will show different results. We regard Vivaudou as speculative."

The New Jersey Chemical Society held its first monthly meeting following the summer vacation, at Achtel-Stetter's, Newark, N. J., Oct. 11, with Dr. Carlton Ellis, president, presiding. The two principal addresses were given by Dr. Harry A. Curtis, chief chemist for the International Coal Products Corporation, Newark, and Dr. Archibald Craig, New York. The first was on the subject of "Low Temperature Carbonization of Coal," dealing with the company's briquette operations at its local plant. The second covered the topic of "The Status of Analytical Chemistry" and recommended ways and means for the betterment of the chemical industry. Forty-three new members were added to the society's roster at the meeting, bringing the total membership up to 475.

## The Heavy Chemical Market

### Current Spot Quotations of Heavy Chemicals, Page 856

#### SHARP DROP IN NITRATE OF SODA

Distress Lots of Heavy Chemicals In Second Hands Are Forcing Prices Down—Rumors That Alkali Prices for 1921 Will Be Higher Than for the Current Year

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances  
Declined

|  |   |
|--|---|
| Acetic Glacial, $\frac{1}{2}$ c. lb.   | Potash Prussiate, red, 2c lb.                   |
| Acid Muriatic, $\frac{1}{2}$ c. lb.    | Potash Prussiate, yellow, $1\frac{1}{2}$ c. lb. |
| Oleum, 20%, \$2 ton                    | Saltspetre, 2c lb.                              |
| Ammonium Sulfate, $\frac{1}{2}$ c. lb. | Soda Ash, light, 15c cwt.                       |
| Sal Ammoniac, 1c lb.                   | Soda Prussiate, yellow, 2c lb.                  |
| Carbon Tetrachloride, 1c lb.           | Sodium Nitrate 60c 100 lbs.                     |
| Potash Muriate, 25c unit               | Sodium Bichromate, 1c lb.                       |
|  | Sodium Prussiate, 1c lb.                        |

#### Trend of the Market

|                              | Today                  | Last Week    | Last Month         | Last Year          |
|------------------------------|------------------------|--------------|--------------------|--------------------|
| Acetic Acid, Glacial.....    | lb. \$11 $\frac{1}{2}$ | \$12         | \$12 $\frac{1}{2}$ | \$12 $\frac{1}{2}$ |
| Sulfuric Acid, 66 deg. ....  | ton 21.00              | 21.00        | 22.00              | 20.00              |
| Bleaching Powder Works ..... | 100 lbs. 6.75          | 6.75         | 7.50               | 2.25               |
| Copper Sulfate .....         | 100 lbs. 7.25          | 7.28         | 8.25               | 8.70               |
| Potash, Caustic .....        | lb. .22                | .22          | .28                | .28                |
| Saltspetre, gran. ....       | lb. .18                | .15          | .15                | .18 $\frac{1}{2}$  |
| Soda Ash, 58 p.c. ....       | 100 lbs. 2.50          | 2.65         | 2.80               | 2.00               |
| Caustic Soda, 76 p.c. ....   | 100 lbs. 4.25          | 4.00         | 4.40               | 3.30               |
| Potassium Bichromate .....   | lb. .31                | .31          | .34                | .30                |
| <b>Average</b> .....         | <b>4.654</b>           | <b>4.674</b> | <b>5.047</b>       | <b>4.115</b>       |

The heavy chemical market has shown a continued downward tendency over the week end on lack of any but the most desultory buying interest. Producers are in the main holding prices up but distressed lots of material in second hands are being forced on the market in many instances and are driving prices downward. Lacking official confirmation rumors of 1921 alkali prices are widely current through the trade, and if there is truth in the rumors the new prices will be considerably higher than those for the current year. Few are willing to venture on futures in any materials but the general attitude seems to be made up of hoping for better conditions after the election. Whether the change will be immediate or permanent is doubted in many quarters but hope persists.

Holders of sodium nitrate have sharply reduced both spot and futures. Muriatic acid has been reduced by one of the principal producers and others are following suit. Second hand glacial acetic is lower. Producers of oleum have reduced their price. Saltspetre is off in producers' hands. Second hand reductions have been heard on sal ammoniac, carbon tetrachloride, red and yellow prussiates of potash, yellow prussiate of soda and soda ash. Ammonium sulfate and potash muriate are lower.

**Acid, Acetic**—Second hand offers of glacial acetic are very plentiful with lower prices heard in an effort to move stocks which are quite heavy on the spot. Even lower than the 11 $\frac{1}{2}$  c price quoted might be possible under the circumstances. Offers of 80% pure from second hands are also heard below the manufacturers' figures at 11c per pound. Producers are still quoting glacial at \$15.95@\$16.70 per hundred and 80% pure at \$13.01@\$13.76 per hundred. Demand has been at a virtual standstill.

**Acid, Mixed**—No change has been made in quotations which are given as 11c@12c per unit for nitric and 1 $\frac{1}{2}$ c @1 $\frac{1}{2}$ c per unit for sulfuric. Others are quoting as

high as 11 $\frac{1}{2}$  c per unit as their bottom figure for nitric in large lots.

**Acid, Muriatic**—Producers have reduced commercial muriatic another  $\frac{1}{4}$ c per pound on the slowness of the market and the necessity for liquidation. The new price basis is \$2.00 per hundred for 20-degree acid in carloads of carboys. Tank car prices are given as 25c per hundred below the carboy figures. Producers of iron free acid continue to hold for firm prices on the basis of \$2.75 per hundred for 20-degree acid in carloads of carboys. Their market is also somewhat slower and it is possible that they will be forced to make corresponding reductions although their present ideas of price are quite firm.

**Acid, Sulfuric**—Producers are at variance on both 60-degree sulfuric and oleum with certain interests being forced to liquidate below the market as set by others. Oleum has thus been reduced to \$23.00@\$25.00 per ton in tank cars f. o. b. works with the two figures representing the prices quoted by different factors. The difference on 60-degree acid is somewhat greater with \$11.00 and \$16.00 per ton quoted. Better agreement is found on the 66-degree strength at \$21.00@\$22.00 per ton.

**Ammonium Chloride**—U. S. P. ammonium chloride remains unchanged around 25c@26c per pound. Second hands have reduced prices on both gray and white granulated with the former quoted at 12c@12 $\frac{1}{2}$ c per pound and the latter at 12 $\frac{1}{2}$ c@13c per pound on the spot. Lump remains fairly firm around 22 $\frac{1}{2}$ c@24c per pound.

**Ammonium Sulfate**—Prices have been reduced from the former level to a basis of \$5.10 per hundred in double bags and \$4.85 per hundred naked or in single bags. Demand has been very slow.

**Arsenic**—White arsenic is fairly strong with quotations around 14c@15c per pound although 13 $\frac{1}{2}$ c per pound has been hinted in some directions. Stocks are not plentiful with demand very light.

**Bromine**—Purified bromine is quoted on a firm basis of 55c per pound f. o. b. works in returnable bottles. Spot lots are held around 65c per pound.

**Carbon Tetrachloride**—Second hands are offering slightly below producers' prices on the slowness of the market. Quotations are around 12c@14c per pound.

**Copper Sulfate**—Leading producers are quoting on the basis of \$7.50 per hundred pounds in barrels for prompt or spot crystals in carloads. Second hand lots are to be had as low as \$7.25 per hundred.

**Copperas**—Spot copperas is to be had around \$1.75 per hundred in good quantity.

**Potassium Carbonate**—Calcined 80-85% carbonate is to be had around 19c@20c per pound on the spot with hydrated at 26c@27c per pound. Calcined 85-90% is held around 23c@25c per pound.

**Potassium Bichromate**—Offers are around 31c@32c per pound.

**Potash, Muriate**—A further decline places muriate on a basis of \$1.75@\$2.00 per unit for 80% material with domestic low grade muriate offered about 25c per unit lower.

**Potash, Prussiate**—Red prussiate is lower at 60c@65c per pound on the spot. Yellow prussiate of potash is to

be had around 37c@38½c per pound on the spot as against 38½c per pound named as the bottom figure last week.

**Saltpetre**—Producers have reduced their price 2c per pound and are now quoting on the basis of 11½c@13½c per pound according to quantity and packing for granulated.

**Salt Cake**—Numerous inquiries are in the market around \$50.00@\$60.00 per ton but no stocks have been located. Export demand continues brisk but producers are unable to offer. Such sales as have been made took place around the quoted level of \$50.00 per ton.

**Soda Ash**—Spot ash can be had around \$2.50 per hundred for light and \$3.00 per hundred for dense. In spite of the repeated denials from producers the rumors to the effect that the 1921 price on soda ash will be around \$1.85 per hundred basis 48% in single bags at works continue to gain credence. Other reports place the price at \$1.75 per hundred while producers are denying that any contracts have been made or prices announced. They are willing to admit that they expect prices to be somewhat higher than last year.

**Soda, Caustic**—Lacking official confirmation from producers the rumor of 1921 prices on caustic continues to circulate. The effect of the rumor is that prices will be around \$3.75 per hundred f. o. b. works basis 60%. This figure if true will be considerably above last year's price. The spot market continues around \$4.25 per hundred for 76% with makers quoting \$4.00 per hundred basis 60% f. o. b. works for prompt shipment (\$5.07 basis 76%).

**Sodium Bichromate**—Late in the week bichromate dropped off to 10½c@11c per pound and showed some signs of strength over the week end but failed to rebound. Spot quotations are around 10½c@12c per pound.

**Sodium Nitrate**—A decided slump occurred in nitrate of soda over the week end. Business has been at a virtual standstill for some weeks and spot prices were dropped from \$3.60 per hundred to \$3.00 per hundred in an effort to stir up interest in the crude market. Futures which have been well maintained up to this time have shown an even more decided decline and are now quoted on a par with the spot market at \$3.00 per hundred. Double refined nitrate has been reduced by producers and is now quoted at 5½c@7½c per pound according to quantity and packing.

**Sodium Prussiate**—Yellow prussiate is lower on the spot at 24c@25c per pound.

#### BRITISH STRIKE AFFECTS TIN

Low prices for tin are attracting local consumers. The nearby market is easy because little interest is shown in prompt deliveries, prices remaining at the low peak of 38c a pound. Futures are in much better tone as dealers are buying against Singapore prices, and local quotations were held up near a level of 39c to 40c for shipments the end of this year and early next year.

The London market is depressed on account of the coal miners strike. The Straits market was even more depressed though exchange was fairly steady, and spot went down £21 10s to £246 10s. Singapore was favored with some support and the slump in the Eastern price was only £13 to £265, sales amounting to 850 tons against 600 on October 8.

The Stauffer Chemical Co. has purchased 30 acres near Seattle and will erect a plant for making sulfuric acid at a cost of \$250,000. The company has plants at Bordeaux, France, and in America at San Francisco, West Berkeley, Los Angeles and Stege, Cal.; Monongahela City, Pa.; Chauncey, N. Y.; Houston and Freeport, Tex.

#### DAVISON CO. STARTS CUBAN LINE

(*Special to DRUG AND CHEMICAL MARKETS*)

Baltimore, Md., Oct. 18.—The Davison Chemical Company of Baltimore, a large producer of sulfuric acid and acid phosphate, has just put into operation its own line of barges to carry pyrites from Cuba to the plant at Curtis Bay. The company owns extensive pyrites deposits in Cuba, and has constructed adequate facilities for loading the mineral there for shipment to the big plant at Baltimore, the Cuban properties having been in process of development for some years. The company was for some time not able to get the full benefit from this ownership because of the scarcity of vessels, and to prevent any future failure in this respect decided to create a barge line, which would always supply a sufficient stock of the crude ore for acid-making purposes.

Previous to the utilization of the Cuban deposits the company, like other acid producers, was dependent almost entirely upon the imports from Spain, and the suspension of shipments during the war caused serious embarrassment and compelled at least a temporary resort to the use of Southern sulfur, which change necessitated a reconstruction of the furnaces.

The first of the barges to start on a regular trip is the Ashland, 281 feet long and of 4,000 tons capacity, which cleared from the Baltimore Custom House on Oct. 11. The Dover will start about Oct. 25, and others will be put in service with the idea of maintaining a weekly service. The barges are to be towed by powerful ocean tugs. The by-products of the Cuban pyrites ores, among them copper, it is calculated, will cover a large portion of the cost of bringing the ore to Baltimore and may in time enable the company to get its supply of acid-making material practically free.

#### CHEMICAL CONDITIONS IN MANCHESTER

S. W. Royse & Co., Ltd., of Manchester, England, say of heavy chemicals: There has been a curtailment of business during September, the threatened strike of the miners and the position in the cotton trade having caused a tendency to postpone heavy commitments pending more settled conditions. The price of sulfate of copper is unchanged but more business has been passing and there is a better inquiry for export, especially for forward shipment. Carbonate of potash has been in only slow demand and the price is a little easier. Sulfate of potash is offering in only moderate quantities. The heavy demand from abroad for white powdered arsenic continues; supplies are short and firmly held. Yellow prussiate of potash has been moving steadily and good business has also been done in prussiate of soda chiefly for export; the demand continues but manufacturers are not disposed to sell far ahead at present. The demand for bichromates of potash and soda has fallen away somewhat. Oxalic acid has been well inquired for, stocks of foreign have been reduced and English makers are holding firmly to their prices. Caustic soda is easier for export. Bleaching powder has been in better demand. The prices of ammonia alkali, bicarbonate of soda and soda crystals have been advanced for the home trade. With one or two exceptions the market for tar products remains unchanged.

James H. Ennis, formerly connected with the purchasing department of E. I. du Pont de Nemours & Co., and for the past year general manager of the chemical department of Frank L. Young Co., 120 Broadway, New York, is now conducting a brokerage business and manufacturers' sales agency business in light and heavy chemicals under the name of James H. Ennis & Co., 910 Tribune Building, New York.

## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, Pages 848-850

### MANUFACTURERS REDUCE MANY PRICES

Quinine Minor Salts Down—Mercurials Cut Again—Citric Acid and Citrates Lower—Drop in Wood Alcohol—American Refiners Reduce Camphor

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

##### Advanced No Advances Declined

|                                 |                               |
|---------------------------------|-------------------------------|
| Acid Citric, 5c lb.             | Mercury, \$2 flask            |
| Acid Oxalic, 3c lb.             | Bisulfate, 6c lb.             |
| Alcohol, Wood, 25c gal.         | Blue Mass, 2c lb.             |
| Methanol, 35c gal.              | Blue Oint., 2c@3c lb.         |
| Camphor, Amer. ref., 10c lb.    | Calomel, 6c lb.               |
| Castor Oil, U.S.P., 1c lb.      | Corrosive Subl., 5c lb.       |
| Caramel, 5c gal.                | Iodides, 3c lb.               |
| *Cream Tartar, 2c lb.           | Red Precip., 7c lb.           |
| Citrates—                       | White Precip., 6c lb.         |
| Iron, U.S.P., 2c lb.            | White Chalk, 2c lb.           |
| and Ammon., 3c lb.              | Glycerin, C.P., 3c lb.        |
| Green Scales, 3c lb.            | Hydroquinone, 10c lb.         |
| Phosphate, 2c lb.               | *Potass. Permanganate, 5c lb. |
| Pyrophosphate, 2c lb.           | Quinine Sulfate, 10c oz.      |
| Potassium, U.S.P., 2c lb.       | Minor Salts, 12c oz.          |
| Sodium, U.S.P., VIII-IX, 3c lb. | *Sulfate, Java & Jap., 5c oz. |
| Silver Nitrate, 5c oz.          |                               |
| *Formaldehyde, 4c lb.           |                               |

##### \*Second Hands

#### Trend of the Market

|                               | Today  | Last Week | Last Month | Last Year |
|-------------------------------|--------|-----------|------------|-----------|
| Acetanilid .....              | \$ .50 | \$ .50    | \$ .60     | \$ .41    |
| Acid Citric, resellers.....   | .65    | .65       | .65        | 1.04      |
| Calomel, American .....       | 1.31   | 1.37      | 1.46       | 1.76      |
| Camphor, Jap., ref.....       | 1.20   | 1.20      | 1.20       | 3.20      |
| Caffeine Alkaloid .....       | 7.50   | 7.50      | 7.50       | 7.00      |
| Iodine, Resublimed .....      | 4.35   | 4.35      | 4.35       | 4.50      |
| Menthol .....                 | 5.75   | 5.75      | 6.25       | 8.00      |
| Morphine Sulfate .....        | 7.80   | 7.80      | 7.80       | 9.80      |
| Potassium Bromide, Cryst..... | .63    | .63       | .75        | .50       |
| Quinine Sulfate, Java.....    | .75    | .80       | .80        | .80       |
| Sodium Salicylate .....       | .50    | .50       | .55        | .50       |
| Strychnine Sulfate .....      | 1.55   | 1.55      | 1.55       | 1.40      |
| Average .....                 | 2.71   | 2.72      | 2.77       | 3.24      |

A wholesale revision of prices toward lower levels particularly on the part of leading fine chemical manufacturers, has been noted this week. The recession in prices has been over a wider area and significant because important items as quinine sulfate, quinine salts, the mercurials, citric acid, the citrates, wood alcohol, camphor and glycerin have been affected. Resellers were the first to feel the effect of the current slump but it now takes in most of the big manufacturers as well. Where two months ago, these same producers were turning down orders from outside sources—that is outside their regular consuming trade—to-day finds them unable to move their accumulated manufactures. Price reductions are the natural consequence with competition considerably keener especially between manufacturers and underselling second hands.

The principal change of the week has been the cut in makers' quinine figures induced principally by the falling off in demand. The weakness of quicksilver is reflected in a further cut in the mercurials, the third within a month. Much the same is true of citric and the citrates which are again lower. Manufacturers have reduced hydroquinone. The sharp drop in wood alcohol this week was more or less expected. U. S. P. castor oil is lower. Imported cream of tartar is again cheaper. Shading of glycerin prices by refiners is reported. American refiners cut the price of gum camphor, Silver nitrate is easier. Formaldehyde is weak with resellers cutting prices right and left to get out. Resale potassium permanganate is cheaper.

**Acetanilid**—Makers still name 50c a pound for U. S.

P. goods basis 200 pound barrels. Resellers are having difficulty in moving their holdings at 45c owing to the small demand and are reported offering in some instances at 40c which figure has not induced any great amount of business in this item.

**Acid Citric**—A further cut in the price of citric acid this week by American manufacturers has brought the price down to 70c a pound for crystals in barrels. Even at this comparatively low price, resale material is offered well below it and meeting with little outside of a routine demand. Imported goods in kegs are quoted openly at 65c a pound on the spot, duty paid. However, it is believed that on a firm order for ten kegs or so, 60c could very likely be done here as several holders are anxious to clean out.

**Acid Oxalic**—Demand has fallen away to very small proportions. Large lots of both imported and domestic material are pressing for sale with competition rather keen and price shading the order of the day. The best openly named figure heard here this week was 32c a pound for spot goods in kegs either American or foreign.

**Acid Salicylic**—The demand for the acid and salicylates as well is very small. Manufacturers report that they hold large reserve stocks and one or two have shut down their salicylic plants. Makers are asking 45c a pound for spot U. S. P. goods in bulk but it is possible to do 39c a pound in outside hands and likely shade this if the right holder is found.

**Alcohol**—An expected and rather sharp cut has been made in the price of wood alcohol by producers this week. Demand has been materially reduced and this has permitted the accumulation of supplies. In the country, logging is better owing to the improved labor situation while other basic conditions are generally improved. The new price basis names \$2.70@\$2.75 a gallon for 95 per cent, \$2.80@\$2.85 for 97 per cent and \$3.40@\$3.50 for methanol. Denatured alcohol is easy at 90c@95c a gallon as to formula and seller. Producers still name \$1.10.

**Caffeine**—The price is still \$7.50 a pound both in manufacturers' and resale hands. Demand is light and new lots are inducing some selling pressure. It is likely that a firm order for a good sized quantity might elicit a better price than \$7.50. Citrated caffeine is quoted unchanged at \$6.00.

**Camphor**—A rather unexpected reduction in the price of American refined gum camphor was made this week especially in view of the very good demand for tablets. Refiners cut the basic price from \$1.40 down to \$1.30 a pound for bulk gum in barrels. Tablets are lower, ranging up to \$1.39. Japanese refined is unchanged at \$1.20 for spot slabs in cases while Chinese refined gum can be bought at \$1.15. Chinese crude is held at 75c with little business reported for some time. Persistent reports come from Japan and Formosa relating the material reduction in production of camphor of late owing to the labor difficulties in Formosa and the spasmodic outbreaks of hostilities with the native tribes.

**Castor Oil**—The demand for castor oil is very light and large lots are available at lower prices. Spot U. S. P. or AA grade oil is now quoted here at 15c a pound in barrels.

**Citrates**—The weakness of the acid and the small demand for the derivatives is responsible for another revision of the prices in this group. (See Acid Citric.)

The new schedule gives the following prices: iron citrate, U. S. P., \$1.13; iron and ammonium citrate, U. S. P., 98c; green scales, \$1.24; potassium citrate, \$1.69; sodium citrate, U. S. P. VIII, \$1.00, U. S. P. IX, \$1.15; iron phosphate, 98c; iron pyrophosphate, \$1.03 a pound.

**Cocoa Butter**—The demand has eased materially within the past ten days. Several large export shipments were noted which stiffened the price two weeks ago. At present, however, the figure is noted easier at 33c a pound for bulk goods with fingers held at 45c@48c as to brand.

**Cod Liver Oil**—Some seasonable buying is reported but nothing to what it should be at this time of the year. Spot goods are still quoted at \$55.00 a barrel for both Norwegian and Newfoundland in 30 gallon tinned barrels. For shipment, Norway is asking \$45.00. A sale of Newfoundland oil was reported to have gone through here at \$45.00 a barrel spot.

**Cream Tartar**—Resale cream of tartar is offered here at 48c a pound which figure in view of the softness of the market and the large quantities pressing for sale, might be beaten on firm business. Manufacturers are naming 53c a pound for American goods.

**Formaldehyde**—The weakness which has developed in wood alcohol has sent formaldehyde holders running for cover. Sales have been made this week at a wide variety of prices. The lowest heard for spot business was 25c a pound for an odd lot. This is not representative but probably a distress lot. The next best figure heard was 27c@32c a pound as to quantity. Several holders are demanding 35c firm. Makers name 40c.

**Glycerin**—According to refiner, glycerin, C. P., in drums ranges from 27½c@28c a pound. Cans are held at 29c@30c a pound. The demand is still small with few sales reported. There are still several large distress lots offered here in five-pound cans, one said to be available at 17c and another at 22c. A lot of Navy goods is offered spot, about 100 tons, in five-pound cans at 22c@23c a pound.

**Hydroquinone**—Manufacturers have reduced their prices owing to a marked falling off in demand and now name \$2.10 a pound. Resale material can be had at \$2.00.

**Menthol**—The position of menthol continues weak. Several of the large consumers are reported to be doing business direct with Japan. Holders are very glad to do \$5.75 a pound for cases, duty paid, in order to get the small business available. Demand is light here and confined principally to jobbing lots at about \$6.00. For shipment, Japan names \$5.00 c. i. f. with little interest displayed in these figures here.

**Mercury**—Quicksilver is lower. Selling agents are naming \$70.00 a flask but it is possible to buy on the spot at \$65.00 without any great difficulty. Demand from consuming interests is very light.

**Mercurials**—Owing to the continued weakness of the metal and the falling off in demand for the preparations, manufacturers have reduced their prices again and now quote on the following schedule: Calomel, \$1.31; bisulfate, 89c; blue mass, 66c; blue ointment, 66c for 30% and 88c for 50%; citrine ointment 54c; corrosive sublimate, \$1.19@\$1.24; iodides, green, \$3.61; red, \$3.71; yellow, \$3.61; red precipitate, \$1.43@\$1.53; white precipitate, \$1.60@\$1.65; mercury with chalk, 66c a pound. Price basis 50 pounds or more.

**Potassium Permanganate**—Resellers have cut the price to 65c a pound with demand light. Manufacturers are still quoting 70c a pound f. o. b. works for U. S. P. crystals.

**Quinine**—With large lots of Java and Japanese quinine selling on the spot at 75c and with the general de-

mand for quinine unusually light for this time of the year, both American makers cut the price to a basis of 80c per ounce for sulfate in 100-ounce tins. For the last time in about a year, the American manufacturers are in a position to take on business outside of their regular routine customers. The bad slump in general business in Java, may likewise have been a factor in weakening the quinine situation all over the world. The minor salts have also been cut, the new basis including the alkaloid, dihydrochloride, acetate, citrate, hypophosphate and benzoate at \$1.17, the hydrochloride, hydrobromide, salicylate and phosphate at \$1.07, the tannate at 80c and valerate at \$2.00.

**Saccharin**—The position of saccharin continues weak with demand small. Manufacturers continue to name \$3.00 a pound but resellers are doing \$2.75 here.

#### GERMAN GRIP ON RARE SUGARS BROKEN

Germany's grip on the rare sugar industry has been broken at last by several American manufacturers who are now able to produce those costly sweets used in the detection of disease germs. At the outbreak of the European war, the group of rare sugars used in our laboratories was manufactured in Germany. The Teutons had such a hold on the processes that they were able at any time to destroy competition.

One of these sugars is of exceptional value in the detection of typhoid, as the organisms of that disease are so fond of it that they naturally select it and so multiply upon it that their presence can readily be detected. The military hospitals of the United States called upon members of the American Chemical Society to cooperate in the making of rare bacteriological sugars for typhoid work and, according to a bulletin issued by the Society, these efforts soon proved successful. Other rare sugars are used as guides in the detection of cholera germs.

Bacteriological or rare sugars require the utmost care in handling, for the presence of any impurities or of another kind of sugar renders them unfit for the precise purposes for which they are intended. This elaborate care is responsible for the seemingly enormous prices at which are rare sugars are listed. High as these costs may appear they are said to yield only nominal profits to the manufacturers. The most expensive rare sugar quoted in the catalogue is dulcitol, for which \$375 a pound is asked. Mannose is worth \$140 a pound.

Another sugar is manna, derived from manna, that nutritive gum with which the Bible tells us the Children of Israel were miraculously fed during their wanderings in the Wilderness. Manna is secreted from a tree and forms in thin scales, which at certain times and under unusual weather conditions may be blown high into the air by the wind and then deposited upon the ground. The Biblical narrative recounts that the Hebrews found the bread from Heaven lying upon the earth in the early hours of the morn. As manna has a delicate and delicious taste which resembles that of a sweet wafer, it is not so good when long exposed to the air—as is also told in Holy Writ.

Xylose, held at \$120 a pound, is made from the lowly corn cob. Inulin is derived from the bulbs of the dahlia, but can be obtained at only certain seasons of the year. Other rare sugars are: arabinose, for which \$100 a pound is asked; levulose, an \$80 a pound product; and raffinose, for which the manufacturing chemist receives \$75 a pound. Only small quantities of these sugars are employed at a time in the laboratory, so they are usually sold in 25 gramme bottles, or by the ounce. An ounce of some of them would last even a busy bacteriologist a year.

## The Intermediate and Dye Market

Current Spot Quotations of Intermediates and Dyes, Pages 858-860

### LESS PRESSURE IN INTERMEDIATES

**Beta-Naphthol and Para-Nitroaniline Speculatively Stronger—Naphthalene Is Lower Owing to An Over-supply of Imported Material—Revival of Export Trade Expected**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
p-Nitroaniline, 5c lb.

Declined

Acid Gamma, 25c lb. Acetanilide, tech., 2c lb.  
Acid H, 10c lb. Benzidine Base, 10c lb.  
Acid Neville & Winther's, 5c lb. Michler's Ketone, 25c lb.  
Acid Salicylic, tech., 2c lb. Naphthalene, 1c lb.

#### Trend of the Market

|                     | Today            | Last Week    | Last Month   | Last Year    |
|---------------------|------------------|--------------|--------------|--------------|
| Benzene, C. P.      | gal. \$35        | \$35         | \$30         | \$27 1/2     |
| Naphthalene, flake  | lb. .11          | .12          | .14          | .06          |
| Phenol              | lb. .12          | .12          | .12          | .12          |
| Xylene, 100 degrees | gal. .45         | .45          | .45          | .40          |
| Toluene, pure       | gal. .35         | .35          | .35          | .26          |
| Aniline Oil         | lb. .26          | .26          | .27 1/2      | .35 1/2      |
| Benzaldehyde        | lb. .65          | .65          | .65          | .65          |
| Betanaphthol, dist. | lb. .50          | .50          | .80          | .50          |
| Paranitroaniline    | lb. 1.15         | 1.10         | 1.05         | .95          |
| o-Tolidine          | lb. .27          | .27          | .27          | .25          |
| <b>Average</b>      | <b>... 0.420</b> | <b>0.424</b> | <b>0.445</b> | <b>0.356</b> |

The downward tendency of the market for dyes and intermediates has been checked to some extent in spite of the lack of buying interest. Some reductions have been made during the period but as a rule they have been of less importance than others recently made. Whether holders will be able to hold on until some buying movement starts, is the puzzle confronting consumers now. Stocks have generally been reduced to a minimum and this fact tends to lend some strength to an otherwise very weak situation. A possible revival of export trade is hoped for in many quarters to bring things back to a more nearly normal footing but no indications of such a movement have been seen as yet.

The extreme weakness of beta-naphthol and para-nitroaniline have disappeared to a great extent and while lacking real strength both of these materials are speculatively stronger. Naphthalene is lower on an apparent oversupply of the imported material with domestic producers offering occasional lots. Gamma, H, Neville & Winther's and technical salicylic acids are lower in producers' hands. Technical acetanilide, benzidine base, and Michler's ketone are lower on light demand.

#### Coal Tar Crudes

**Benzene**—In spite of the lack of demand from the makers of intermediates benzene continues in a fairly strong position on account of the demand for 90% as a substitute for gasoline. Even this demand is slower at present but this has not yet brought on enough distress to force lower prices. Pure benzene is quoted on a basis of 35c per gallon in tank cars with 90% at 33c per gallon in tanks.

**Naphthalene**—Offers of domestic flake as low as 11c per pound have been heard following the flood of imported flake which has been forced on the market here without real demand to consume it. C. i. f. quotations from the other side are lower but recent heavy buying of foreign material has forced holders to cancel existing contracts and sell at any price. Sales have been made during the period at prices considerably below the quoted figures of 11c@14c per pound but it is be-

lieved that such sales were below the actual market which seems best represented by the quoted figures.

**Phenol**—Phenol continues quite weak without price change. Export demand is practically nil and little spot business is being done.

**Toluene**—Pure toluene remains on a fairly firm basis of 35c@40 1/2c per gallon according to quantity.

#### Intermediates

**Acid 1, 2, 4**—Prices have remained firm at the previous level of \$1.05@\$1.10 per pound.

**Acid, Gamma**—Offers of gamma have been heard around \$4.00@\$4.25 per pound following the entrance of a new producer into the field. Demand has been fair but not active.

**Acid H**—Lower prices are quoted for H following very limited inquiry. Quotations are now given as \$1.70@\$1.80 per pound. Resale lots at low prices have forced producers to reduce their price to this figure.

**Acid, Neville & Winther's**—Slowness has forced a reduction on Neville & Winther's acid to \$1.80 per pound. Producers have been forced to meet a low resale market.

**Acid, Salicylic**—Technical salicylic acid has been reduced to 38c@40c by producers. The second hand market is decidedly weak and it is probable that business could be done below this level for resale material.

**Acetanilide**—Technical acetanilide may be had from producers around 40c per pound. Resale material which is more or less distressed is to be had in good quantity on the spot at somewhat lower figures than those quoted.

**Aniline Oil**—Producers continue to quote around 30c per pound for aniline oil but are admittedly willing to shade this figure decidedly for firm business. Second hands are offering oil around 26c per pound in some cases drums included. Buying has been at a standstill with producers unwilling to reduce prices in an effort to stimulate trade.

**Anthraquinone**—Sublimed anthraquinone is to be had around \$2.50@\$2.75 per pound on the spot. Paste (25%) is to be had around \$1.00 per pound.

**Benzidine**—Base is lower with quotations heard around \$1.15 per pound for paste on the spot. Dry

#### Those Unreliable American Dyes?

##### II

The wife of the Mayor of a New Jersey city purchased in a large Newark department store a riding habit, which, after one short week's use, faded markedly. The original color was taupe, a mixed shade, requiring the use of a certain amount of blue. Chemical examination of this cloth showed that, while two of the dyes used were fast to sunlight, one, the blue, was fugitive. Exposed to the light, this blue faded, changing the shade of the garment materially.

The fault was the dyer's. He used a blue dye known to be fugitive to sunlight in combination with colors of recognized permanency.

Remember, no mixture of dyestuffs will hold its color if one of the dyes used is not fast for the purpose intended.

base is around \$1.25 per pound. Sulfate is held at \$1.05 per pound without change.

**Benzoyl Chloride**—Quotations are around \$1.25@\$1.35 per pound.

**Beta-naphthol**—The extreme weakness of the beta market has largely disappeared over the week end and prices are decidedly firmer in second hands. Quotations have ranged from 50c@55c per pound with the majority of prices around 52c per pound. Producers continue to quote up to 75c per pound but are finding no business at this level as stocks in second hands are more than enough to supply the slow demand which exists at present. Distress among second hands is pretty general. Some export demand has been noted.

**Chlorhydrin**—Prices are around \$2.50 per pound.

**Diethylaniline**—Lots of diethylaniline are to be had around \$1.50 per pound on a very weak market.

**Dimethylaniline**—Lots are to be had from second hands around 90c per pound with some shading possible.

**Michler's Ketone**—Producers are quoting lower on Michler's ketone at \$4.00@\$4.25 per pound. Demand is slow.

**Para-nitroaniline**—Following the slump of last week para has strengthened considerably. Offers from producers are heard around \$1.15 per pound with second hand lots pretty well held at the same figure. Other quotations are heard on a more or less speculative basis of \$1.20 per pound and others as high as \$1.25 per pound. A fair market seems to be around \$1.17 per pound.

**Para-nitroacetanilide**—Prices have remained unchanged around 80c@85c per pound on a slow market.

**Para-phenylenediamine**—Prices are weak at the recently quoted levels of \$2.30@\$2.50 per pound.

**Xylidine**—Offers of limited quantities of xylidine were heard during the week around 50c per pound drums included.

According to the Japanese Department of Agriculture and Commerce 30,194 unemployed workmen were reported in the dye industry during May last and 8,913 in the chemical industry. In all the industries throughout the country, 105,930 workmen were discharged during May and 62,022 newly engaged, resulting in the throwing out of employment 43,908 persons.

Arkell & Douglas, Inc., of Shanghai, China, have published a booklet on the "Dyestuff Situation in China" by G. Warren Heath, manager of their dye department, which sheds many interesting sidelights on Chinese trade and the peculiarities of the Chinese trader. Copies may be had on request.

The Treasury Department has allowed a drawback on beta-naphthol manufactured by the Central Dyestuff & Chemical Co., of Newark, N. J., with the use of imported naphthalene.

William H. Clark, formerly sales manager of the Butterworth-Judson Company, has begun business in chemicals, dyes and oils. His office is in his own building at 224 Pearl street.

The American Metals Co., New York, which has been developing potash deposits in Bartow county, Ga., is shipping a carload to New Jersey where it will be tested.

H. Gardner McKerrow of the National Aniline and Chemical Co. will sail for the West Indies on Nov. 6 for a three weeks trip.

## JAPANESE DYE MARKET STAGNANT

(*Special Correspondence to DRUG & CHEMICAL MARKETS*)

Tokyo, Japan, Sept. 20.—The dye market's fall buying season is not very active and holders are deferring their marketing of cargo imported and held in bonded warehouses. Prices show no signs of change. With the approach of the winter season the weaving industry, particularly the silk tissue industry, in some districts has revived somewhat partly on the strength of the reduction in the surplus stocks for the domestic market, and partly on the Government protection of the silk market. Some districts report an advance of 10 to 20 per cent in prices of silk fabrics.

In comparison with the same time last year the volume of business in the dye market is very much smaller. Much cargo from the United States is still kept in bonded warehouses and no one will take it out and place it on the market. German supplies consist mostly of direct and acid colors and alizarin dyes. French and Swiss supplies are mostly extracts. The American stocks are of a wide variety. Japanese dyes are mostly sulfur colors. Their export to China, which has been one of the hopes of Japanese dye manufacturers, has stopped and the stock of sulfur dyes is comparatively large.

Indigo pure stands at 900 yen per barrel. Direct black double concentrated is quoted at 550 yen per picul; direct blue double concentrated at 750 yen per picul. Oxamine violet from Germany is quoted at 1,000 yen per picul. These prices are expected to rule for some time to come. Sulfur black turned over here is offered at 50 yen per picul, which is a decline of a fair magnitude compared with the price at the beginning of last month.

Direct violet from the United States is quoted at 650 yen per picul, while ethyl violet is 600 yen per picul. Acid violet is quoted at 1,500 yen. Alizarin blue from Germany is 1,600 yen per picul.

Articles of incorporation have been filed in Albany by the Dicks David Company, Inc. The company will have a capital stock consisting of \$500,000 preferred stock and 10,000 shares of common stock of no par value. In September, 1920, the Dicks David Company purchased the interests of the Hellers in Dicks, David & Heller Co., of Chicago Heights, Ill. They have taken over the Chicago heights property and have placed in their business additional capital for operating purposes. The incorporators named are: Murray Taylor, Paul P. Barringer, Jr., and George Brooks.

German dyes licensed for import into the United States during the fiscal year 1920 amounted to about 3,500,000 pounds, while dyes licensed for import from non-enemy sources totalled about 8,000,000 pounds, according to an estimate made by F. S. Dickson, acting director of the War Trade Board section of the Department of State. An accurate list of import licenses issued for these dyes is now being compiled by the board and is expected to be completed within a month.

The Geigy Color Company, Ltd., has just been chartered in England. Its capital is £20,000. The new company is a branch of J. R. Geigy S. A. of Basle, Switzerland, which recently reorganized its American branch and acquired the controlling interest in the dyestuff department of the Ault & Wiborg Co. of Cincinnati.

A. H. Bretcher has joined the sales force of the Vulcan Color & Chemical Co. Mr. Bretcher was formerly with Butterworth-Judson Co.

The American Chemical Society has fixed the date for its 1921 spring meeting for April 26 to 29, at Rochester, N. Y.

## The Oil Market

Current Spot Quotations of Oils, Tallow, Greases, Page 860; Naval Stores, Page 858

### VEGETABLE OILS QUOTED LOWER

Buyers Cover Immediate Wants Only—Holders Believe Market Will Improve After Election—Corn Oil and Olive Fooths Show a Little Strength

#### PRICE CHANGES IN NEW YORK

(Stocks in First Hands)

##### Advanced

Olive foots,  $\frac{3}{4}$ c lb.

##### Declined

Castor, 1c lb.  
China Wood,  $\frac{3}{4}$ c lb.  
Coconut,  $\frac{3}{4}$ c lb.  
Coppa,  $\frac{3}{4}$ c lb.  
Cottonseed, 1c lb.

Linseed, 4c gal.  
Peanut Coast, 1c lb.  
Perilla Coast,  $\frac{3}{4}$ c lb.  
Soya Bean,  $\frac{3}{4}$ c lb.  
Turpentine, 3c gal.

#### Trend of the Market

|                                  | Today             | Last Week         | Last Month        | Last Year         |
|----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Cod' Oil, N. F.....              | \$ .85            | \$ .85            | \$1.00            | \$1.20            |
| Degras, Amer., bbls.....         | .06               | .06               | .06               | .07               |
| Lard, No. 1.....                 | 1.19              | 1.19              | 1.19              | 1.45              |
| Menhaden, crd* tanks.....        | .45               | .50               | .50               | 1.10              |
| Neatsfoot, 20 deg. c.t.....      | 1.65              | 1.65              | 1.65              | 2.25              |
| Red Oil, distilled.....          | .11 $\frac{1}{2}$ | .11 $\frac{1}{2}$ | .12               | .16 $\frac{1}{2}$ |
| Stearic Acid, T. P.....          | .22 $\frac{1}{2}$ | .22 $\frac{1}{2}$ | .22 $\frac{1}{2}$ | .31               |
| Coconut, Ceylon, Dom., bbls..... | .15 $\frac{1}{4}$ | .16 $\frac{1}{4}$ | .15 $\frac{1}{4}$ | .16 $\frac{1}{2}$ |
| Cottonseed, crude, tanks*.....   | .07 $\frac{1}{4}$ | .09               | .10               | .16 $\frac{1}{2}$ |
| Linseed, cars.....               | 1.08              | 1.12              | 1.22              | 2.12              |
| Olive, denatured.....            | 3.00              | 3.00              | 3.00              | 2.60              |
| Peanut, refined.....             | .17               | .17               | .16               | .26               |
| Soya Bean, bbls.....             | .12 $\frac{1}{2}$ | .12 $\frac{1}{4}$ | .13 $\frac{1}{2}$ | .18 $\frac{1}{2}$ |
| <b>Average</b> .....             | <b>0.704</b>      | <b>0.708</b>      | <b>0.722</b>      | <b>0.927</b>      |
| <small>*F. O. B. Mills</small>   |                   |                   |                   |                   |

The general trend of oil prices continues downward with demand still very light. Buyers are showing little interest and the recent weak appearance of the market has prevented them from entering the market with any confidence. Orders which have been recently booked have covered only the immediate requirements of buyers with no tendency to anticipate needs in any quarter. Just how much further the decline will go before the turn comes is hard to say but the general belief is that the election next month will remove some of the uncertainty from the minds of buyers and will lead to a general feeling of greater confidence in all markets. Opinions differ as to how great an effect this will have but it will undoubtedly improve the situation to some extent.

General price reductions on the slow market have been the rule during the week. Corn oil and olive foots have shown a little strength but otherwise the vegetable oil list has been quoted lower. The animal and fish oils have not shown quotable changes but have continued on the former weak basis with very little business being done.

Naval stores have continued inactive with a further reduction on turpentine failing to attract attention. Buyers lack confidence in view of the repeated reductions in price.

#### Vegetable Oils

**Linseed Oil**—Buyers and sellers continue at variance in their price ideas with quotations around \$1.08@\$1.10 per gallon for October oil in carlots, and with buyers' ideas below \$1.00 per gallon. Some distressed oil has changed hands during the week well below \$1.00 per gallon but as a rule sellers are maintaining prices on as firm a basis as possible in the face of a virtual stopping of demand. Future positions are in fully as bad shape with quotations entirely without meaning. The London market is also weaker with spot oil quoted at 70

shillings per quintal. Antwerp quotations are lower at 390 francs per 100 kilos.

Reflecting the uncertainty of the oil market the seed markets have slowed down to a decided extent. Buenos Aires spot flaxseed is quoted at \$2.15 $\frac{1}{2}$ @\$2.16 per bushel. Duluth seed is quoted at \$2.84@\$2.89 per bushel and Winnipeg at \$3.01@\$3.05 per bushel.

**Castor Oil**—No. 1 castor oil is lower with lots to be had at 15c per pound in barrels or 16c@17c per pound in cases. No. 3 oil is lower at 14 $\frac{1}{2}$ c@15c per pound. Little demand has been noted.

**China Wood Oil**—Both spot and Coast positions on wood oil have weakened during the week with little interest shown by buyers. Spot barrels were to be had at 17c@17 $\frac{1}{2}$ c per pound with some shading possible. Coast barrels were quoted at 14 $\frac{3}{4}$ c@15c per pound with bids asked. Consumers are buying only for immediate requirements which are very small.

**Coconut Oil**—Weakness in demand has forced holders to quote lower prices on all coconut oils in the hope of stimulating business. Ceylon in barrels on the spot has been reduced to 15 $\frac{1}{4}$ c@16 $\frac{1}{4}$ c per pound and in tanks to 14 $\frac{1}{2}$ c@14 $\frac{1}{4}$ c per pound. Cochin oil in barrels is lower at 17c@17 $\frac{1}{2}$ c per pound with tanks quoted at 15 $\frac{1}{4}$ c@16c per pound. Manila oil on the Coast in tanks is quoted lower at 12 $\frac{1}{2}$ c@13c per pound.

**Copra**—Coast copra is lower at 7 $\frac{1}{2}$ c@7 $\frac{1}{4}$ c per pound.

**Corn Oil**—Prices have remained without quotable change on corn oil which has been in fair demand in spite of the general weakness of the oil market. Crude oil in tanks f. o. b. shipping point is quoted at 10c@10 $\frac{1}{2}$ c per pound with refined oil on the spot in barrels held at 16c@16 $\frac{1}{4}$ c per pound.

**Cottonseed Oil**—Further reductions have had to be made in the price of crude cottonseed oil on the slowness of the market. Quotations now are given as 7 $\frac{3}{4}$ c@8c per pound in buyers' tanks f. o. b. mills. Prime Summer yellow is lower at 11 $\frac{1}{2}$ c@12 $\frac{1}{4}$ c per pound according to position.

**Olive Oil**—Denatured olive oil continues weak around \$3.00@\$3.10 per gallon. Attempts recently made to establish prices on a firm basis of \$3.25 per gallon resulted in failure as stocks are good at the \$3.00 level in the face of the slow demand. Foots are higher following the absorption of low priced stocks. Prices are quoted as 13c@14c per pound for prime green foots on the spot. Somewhat better demand was noted early in the week which later decreased noticeably.

**Palm Oil**—While no change has been made in the quoted level of palm oils the market continues weak and shading of quoted prices on firm business is fairly general. Lagos casks are quoted at 10 $\frac{1}{4}$ c@11c per pound and Niger at 10c@10 $\frac{1}{2}$ c per pound.

**Palm Kernel Oil**—Domestic oil is to be had at 16c@16 $\frac{1}{2}$ c per pound on the spot with imported oil offered at 15 $\frac{1}{2}$ c@16 $\frac{1}{4}$ c per pound. Buyers' ideas of price are somewhat lower than the quoted level.

**Peanut Oil**—Refined peanut oil has remained unchanged around 17c@17 $\frac{1}{2}$ c per pound. Offers of Southern crude have been largely withdrawn with a nominal price of 10 $\frac{1}{2}$ c@11c per pound quoted. Oriental crude on the Coast has slumped to 9 $\frac{1}{4}$ c@10c per pound in sellers' tanks with bids asked at this figure. Little business has been done, however, on this basis. Crude in

barrels on the spot is quoted at 14½c@15c per pound and there has been a limited amount of business at this level.

**Perilla Oil**—Coast quotations are lower around 11c@12c per pound in sellers' tanks with business of a very limited character. Barrels on the spot are nominal.

**Rapeseed Oil**—While quite weak there has been no change in the quoted levels on rapeseed. Crude on the Coast is freely offered at 12½c@13c per pound with perhaps some shading to be done on firm business. Refined oil in barrels on the spot is quoted at \$1.25 per gallon and blown at \$1.45 per gallon.

**Soya Bean Oil**—Crude on the Coast is off ¼c per pound both for October and future delivery. Present quotations are on the basis of 8½c@9c per pound for October and 9c@9½c per pound for futures. Bids are asked at these levels. Crude in barrels on the spot is quoted slightly lower at 12½c@13c per pound.

**Walnut Oil**—Crude oil on the spot is quoted by crushers at 14c@15c per pound.

#### Fish Oils

**Cod Oil**—No change has been noted in the cod oil situation. Leading factors continue to quote 95c per gallon for Newfoundland oil with others offering as low as 85c per gallon. The latter price is said to be below the net cost of bringing the oil in. Domestic oil is quoted at 90c per gallon. Little business is being done.

**Menhaden Oil**—Holders of this oil continue in position to let no firm bids at any reasonable prices. Quotations are given as 45c a gallon for crude in tanks f. o. b. Baltimore and 50c per gallon in barrels. Refined grades remain unchanged and slow.

#### Animal Oils

There has been no change in the general weakness of the animal oils with prices quoted on the former basis and subject to some shading.

#### Naval Stores

**Rosin**—Limited business has left rosin weak without significant change in prices quoted.

**Turpentine**—While continuing firm until late in the week turpentine finally dropped off 3c per gallon to \$1.27 per gallon. Even at the reduced level business has been very dull in all markets. London prices are lower around 119 shillings per quintal with business there on a decided slump. Savannah prices are lower at \$1.19 per gallon. Buyers still lack confidence and are expecting further reductions in spite of statements from sellers and producers that the recent reductions have brought prices down to a virtual rock bottom.

#### HERCULES POWDER CO. BUYS YARYAN CO.

(Special to DRUG AND CHEMICAL MARKETS)

St. Louis, Oct. 18.—Negotiations have been completed for the sale of the Yaryan Rosin and Turpentine Company to the Hercules Powder Company for \$2,250,000. Ten or twelve St. Louisans, who are interested in the turpentine company, are said to have made more than \$1,000,000 by the deal. The company had a capital stock of \$1,000,000.

Ben F. Brinkman is president of the company, Edward Foristel, secretary and Albert Baer, treasurer. Among the other heavy stockholders are Theodore Hemelman, Abram M. Frumberg, John F. Queeny, Frank Ruff and Julius Pitzman. Brinkman and Hemelman are said to have made more than \$250,000 each. The sale was handled by Frumberg and Foristel and their fee is said to have been \$25,000.

The company has two plants, one at Brunswick, Ga., and the other at Gulfport, Miss. It owns about 10,000 acres of yellow pine forest. The deal for the sale has been pending for several months.

#### OIL PRICES AT MARSEILLES

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, France, Oct. 6.—Forecasts for the new crop of olive oil remain entirely satisfactory and business is dull pending the receipt of the new oil. There has been a slight drop in prices per hundred kilos, which are as follows:

|                  | Francs       | Francs        |
|------------------|--------------|---------------|
| Bouches du Rhone | 1125         | Aragon .....  |
| Var .....        | 1100 to 1125 | Andalusian .. |
| Borgas .....     | 1100 to 1200 | Corsican .... |
|                  |              | 700           |

The situation in edible oils remains very quiet. The drop in the price of peanuts reacted on the market and buyers are keeping away. Prices per 100 kilos follow:

|                                 | Francs     |
|---------------------------------|------------|
| Peanut Oil .....                | 470 to 490 |
| Sesame Oil* .....               | 440 to 480 |
| Cottonseed Oil (American) ..... | 450 to 490 |
| Cottonseed Oil (English) .....  | 440 to 470 |

There is no change in oils for manufacturing. Little business is being done. Prices per 100 kilos are:

|                   | Francs |
|-------------------|--------|
| Peanut oil .....  | 375    |
| Coconut oil ..... | 425    |
| Palm oil .....    | 415    |

**Palm Oils and Glycerin**—The market is high and firm and seems likely to remain so. Prices per 100 kilos:

|                                   | Francs | Francs                         |
|-----------------------------------|--------|--------------------------------|
| Palm oil .....                    | 350    | Glycerin (from lye) 40% ....   |
| Grande Bassam ..                  | 315    | Olein (from saponification) .. |
| Glycerin (from saponification) .. | 615    | Olein (from distillation) .... |
| Glycerin (from lye) 80% ....      | 505    | Stearine, pure ..              |

700 to 890

#### VEGETABLE OIL PRICES IN TOKYO

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, Oct. 1.—The vegetable oil market is steady again on the shortness of prompt cargo and the price is on the upgrade. The present improvement, however, is not yet general, some qualities which depend primarily on foreign demand still hanging limp. Rapeseed oil, which is a leading oil in the local market, has been falling steadily on account of the general business depression and the declining tendency in the rice market. Oil mills have found it necessary to cut down their production.

Perilla oil stands an exception to the general rule. It is still too plentifully stocked to feel any sympathy with other vegetable oils and its market is inactive. The price, however, is somewhat firm, as the market expects to see some speculative buyers cover if it goes lower. The standard grade is offered at 18 yen per case.

Linseed oil and China wood oil are being traded in only slightly because of the shortness of prompt cargo, but in sympathy with rapeseed oil and sesame seed oil their market is steady. Soya bean oil, coconut oil and peanut oil are dull. Coconut oil is particularly inactive, being rarely inquired for by consumers here while its foreign market has been lost for several months already. Soya bean oil is inquired for by London and some Scandinavian dealers. Peanut oil is quoted at 26 yen to 27 yen per picul, which price is not likely to be maintained much longer owing to the reported bumper crops of peanuts in Shantung this year.

Camphor oil is pretty well stocked and its price is stationary. White oil is quoted at 54 yen per picul, while red oil is quoted at 35 yen per picul. Demand for the oil is restricted as the celluloid industry here is still depressed.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, Pages 850-852

### IMPORTED DRUGS DECLINE IN DULL MARKET

Little Buying Activity But Market Retains Basic Soundness—Cinchona Bark Easier—Buchu Softens Slightly—American Saffron and Insect Powder Lower—Mandrake Weak

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances

Declined

|                            |                                    |
|----------------------------|------------------------------------|
| Aconite Root, 5c lb.       | Insect Powder, Pure, 5c lb.        |
| Aniseed, Span., 5c lb.     | Jalap Root, 5c lb.                 |
| Buckthorn Bark, 2c lb.     | Mandrake Root, 1c lb.              |
| Buchu, Short, 10c lb.      | Marjoram, French, 1c lb.           |
| Cassia Fistula, 2c lb.     | Nutmegs, 1c lb.                    |
| Cassia, Chin. Mats, 2c lb. | Pepper, Black Sing., 5c lb.        |
| Cinchona Ollilla, 5c lb.   | White Singapore, 5c lb.            |
| Cloves, Zanzib., 1c lb.    | Poppy Seed, Dutch, 4c lb.          |
| Colchicum Root, 10c lb.    | Turkish, 1½c lb.                   |
| Colchicum Seed, 10c lb.    | Indian Blue, 1c lb.                |
| Digitalis, Imp., 1c lb.    | Saffron, Amer., 10c lb.            |
| Ginger, Jamaica, 2c lb.    | Stramonium Lvs., 2c lb.            |
| Japanese, 5c lb.           | Strophantidin Seed, Kombe, 10c lb. |

#### Trend of the Market

|                           | Today | Last Week | Last Month | Last Year |
|---------------------------|-------|-----------|------------|-----------|
| Aconite Root, U.S.P.      | \$45  | \$50      | \$50       | \$70      |
| Buchu Leaves, Short.      | 3.30  | 3.40      | 3.60       | 2.20      |
| Cantharides, Russian      | 3.00  | 3.00      | 2.50       | 3.75      |
| Cocculus Indicus          | .22   | .22       | .22        | .60       |
| Ergot, Spanish            | 2.75  | 2.75      | 2.50       | 4.00      |
| Insect Powder, pure       | .65   | .70       | .70        | .65       |
| Ipecac, Cartagena         | 3.28  | 3.25      | 3.25       | 3.10      |
| Nux Vomica                | .14½  | .14½      | .14        | .08       |
| Opium, gum                | 7.50  | 7.50      | 7.50       | 7.00      |
| Rhubarb Root, H. D.       | .70   | .70       | .70        | 1.75      |
| Tragacanth No. 1 ribbon   | 4.50  | 4.50      | 4.50       | 4.50      |
| Wild Cherry Bk. thin nat. | .10   | .10       | .10        | .15       |
| Average                   | 2.23  | 2.25      | 2.35       | 2.39      |

An extremely dull week has been experienced by the crude drug houses here. Buying continues to be confined to the narrowest of routine needs. Considering the group as a whole, the foreign drugs are the ones which are still suffering reverses while American botanicals with some exceptions, of course, are maintaining a steady firmness with little alteration in values. Although business is slow and prices in many instances under pressure owing to financial tightness and new goods coming on this market, basic conditions retain their firmness. To a great extent, American shippers in the country have withdrawn from the market and are not quoting, apparently waiting for the present slump to blow over. Foreign shippers, however, need the money and are enabled to force goods on the market by the low rates of exchange.

The actual number of price recessions has been fewer this week although the movement of quotations has been distinctly downward. Short buchu is in better supply and easier. Buckthorn bark holds weak on cheaper shipment offers. Colchicum root and seed are lower. Cinchona is easing down. Cheap offers for shipment of American saffron from Vera Cruz are noted. Digitalis is easier. Jalap is under pressure with demand light. Mandrake is weak and down again. Imported stramonium has softened. Gingers are off and in small demand. Poppy seeds continue to drop rapidly. Aconite root keeps soft. Insect powder holds easy, tending down.

#### Crude Drugs

**Balm Gilead Buds**—Stocks show no increase here and holders are naming \$1.60 a pound firmly for spot goods.

**Cantharides**—Chinese powdered is not freely available

and the price has been checked at \$1.40 in spite of a \$1.00 market for whole. Russian for shipment from Hamburg are \$2.00. Spot whole Russian are \$3.00 and powdered \$3.25 a pound.

**Ergot**—The market here is dead. Several large consumers have been badly stung on Spanish ergot and are likely to turn to Hamburg in the future as a reliable source of supply for by next season Russian goods are expected to be available. A great deal of \$5.00, \$4.50 and \$3.50 ergot is held in consuming hands here and with the spot market weak at \$2.75, their position is not altogether comfortable. Spanish shippers have evidently manipulated things successfully from this season's financial viewpoint but this certainly will not encourage consumers to look to Spain for future requirements if they are available anywhere else.

**Manna**—Prices are still strong and stocks firmly held. Large flake are commanding 85c@90c a pound and the small 55c.

**Nux Vomica**—London reports £85 a long ton as the market there for spot buttons. New York still holds to 14½c in most quarters with a large order likely to command down to 14c in the right quarter. Powdered is steady at 22c@24c as to seller.

#### Balsams

No change in prices has been recorded this week. Peru is soft and in light demand at \$3.25 a pound here. Tolu is weak with little buying support noted at 75c. Canada fir is firm with supplies limited at \$14.00 a gallon. Oregon ranges from \$1.75@\$1.95 as to seller. South American copaiba is 55c still.

#### Barks

**Buckthorn**—Spot goods are now held openly at 20c a pound with demand very light at the lower price. Shipment is quoted by Hamburg at 12c c. i. f.

**Cascara Sagrada**—New peel is held on the spot at 16c. The Coast quotes 11c in cars for shipment. For 1919 peel, 16½c@17½c is the figure. Small holdings of 1918 are available from 18c up.

**Cinchona**—Large imports of Java, South American and Indian cinchona have been noted lately. Nice quality long quills running 12 per cent total alkaloids are now available at 50c@60c as to seller. Broken as to test range from 45c@50c.

**Elm**—This bark is one domestic drug which is due for sharply higher prices this winter. Collections are over and the total goods on hand are small. It is seven or eight months until the next gathering season. On the spot, sellers are now generally asking 85c a pound for nice grade bark while some lots can still be picked up at 80c which are of rather poor quality. Quite a number of orders at 80c from consumers have been turned down during the past few days. Grinding bark is steady and unchanged at 40c.

**Orange Peel**—Prices are slightly easier at 13c a pound for bitter and 9c for sweet ribbons. Sweet peel in quarters is held at 10c.

#### Berries

Holdings of saw palmetto berries are reported small. Although small lots are reported to have been bought up at 18c and 20c, the leading sellers here want 23c@25c a pound for their goods. Junipers continue weak. Holders would be tickled to clean out at 4½c. Cocculus indicus are unchanged at 22c. Recent imports of cubeb have not changed prices. For ordinary, \$1.30 is asked and for XX \$1.50.

**Flowers**

**Chamomiles**—All chamomiles are under pressure. Genuine Hungarian are held at 37c with Hungarian type at 35c. Roman are 16c.

**Insect**—The powder is somewhat easier at 65c a pound on the spot for the pure. Demand is light.

**Saffron**—Spot American safflower is down to 75c a pound and easy thereat. For shipment from Vera Cruz, 5,000 pounds are offered in one lot at 50c. Valencia saffron is easy and unchanged at \$12.50 for one pound tins.

**Leaves and Herbs**

**Belladonna**—This item is easier but unchanged at 30c a pound spot.

**Buchu**—For the first time in some months reports out of Cape Town conflict. A prominent shipper there responded to an American cable inquiry that he was cleaned out. A tendency to weaken in London and New York a few days later brought an offer from this same shipper of ten bales at a very favorable figure. Other rumblings via London indicate that all the reports from Cape Town have not adhered strictly to the truth. Both buyers and sellers here are beginning to doubt. The spot market is easier with offers for a bale or more being openly named at \$3.30 a pound. Less than bale lots are held at \$3.50.

**Digitalis**—Imported digitalis is somewhat easier here and offering more or less freely at 21c a pound.

**Stramonium**—Imported goods are cheaper at 32c a pound with 30c mentioned as a possibility. Cultivated domestic material is held firmly at 38c.

**Roots**

**Aconite**—U. S. P. root is easy at 45c a pound here. Demand is light and the tendency toward lower levels.

**Colchicum**—The root is down again this week and now held at 50c a pound on the spot.

**Ginger**—Lack of demand is forcing down ginger prices. Jamaica grinding root is lower at 31c@33c a pound as to grade. African is 11c and Japanese 10½c.

**Jalap**—This item is under pressure and U. S. P. goods according to test is available all the way from 40c a pound up to 55c for 17 per cent.

**Mandrake**—The root continues to settle slowly. Spot goods are now weak at 15c a pound with sellers reported glad to take this and get out. For small lots, sales have been reported at 16c.

**Senega**—The situation is unchanged with the spot market about \$1.10 up to \$1.20 a pound. A buyer in the market here for one ton turned down quotations of \$1.10 and expressed confidence that his counter-bid of \$1.00 for spot root would be accepted. The country still quotes \$1.00 openly although reports state that 90c has bought one or two lots.

**Seeds**

**Colchicum**—The seed is again lower and now held at \$1.10 a pound.

**Poppy**—Sharp cuts have been made in poppy seed figures. Dutch is now down to 15½c a pound spot. Blue Indian is held at 13c and Turkish at 14½c.

**Strophanthus**—Kombe strophanthus seed is again lower and now holds easy here at 90c a pound.

Reports from planters in Guadeloupe, French West Indies, indicate that the output of vanilla during the approaching season will be considerably larger than the 1919-20 crop, although estimates differ as to the extent of the probable increase. They range from 50 to 150 per cent, and are doubtless influenced by the variance in crop conditions in the different vanilla sections. Practically all of the last crop was shipped to the United States, the records showing that 37,990 pounds of cured vanilla were exported.

**MARKET NOTES FROM MEXICO**

(*Special Correspondence to DRUG & CHEMICAL MARKETS*)

Vera Cruz, Mexico, Oct. 4.—There is little movement in vanilla beans. The new crop will be ready for the market in November. Whole vanilla is \$3 per pound, U. S. currency, and "Picadura" or cuts \$2.80. The high price for cuts is due to scarcity, very little being left of the old crop. Cuts will be much lower when the whole vanilla of the 1920 crop comes on the market. Over 5,984 kilos (13,164 pounds) were exported to the United States during the month of September.

The new crop of jalap root is held at \$50 per 45 kilos Mexican currency, net weight at the point of loading. There is not much demand on the part of buyers.

For the perfectly cured sarsaparilla root of the Coast section, the price asked by sellers and gatherers is 60 cents per kilo, net weight at point of shipment, without much demand. The product of the interior is held in small estimation because of the small percentage of medicinal properties which it contains. The rains of the past month have not augmented the crops, neither have they occasioned any damage. I am informed by natives who are accustomed to dig the root, that their work is facilitated through the softness of the earth, though retarded by the difficulty in drying them.

Vera Cruz quotations on jalap and sarsaparilla roots are lower than formerly, owing to the decline in the markets of the United States. For this reason there have been very few shipments to the United States. Prices in the European markets have also declined. France presents the best market, but there the demand is small.

It is reported by one of the leading Mexico City papers that 10 cases of opium valued at \$35,000 were taken by the Mexico City police from a Chinese clubhouse and turned over the Mexican Sanitary Department which destroyed it by burning. Numerous offers were made for the opium by persons who wanted to export it.

Only by special permission can opium, morphine, heroin or cocaine be imported into Mexico. The decree controlling imports was issued Sept. 28, 1920, and sent to all the custom houses in Mexican ports of entry, by the Secretary of State. Firms in Mexico wishing to import these drugs have to obtain permission from the Mexican Health Department. Every importation has to have a special permit and drugs of this kind can not be dispatched at the Mexican Custom Houses until the Secretary of State has notified the administrator at port of entry that the permission has been given by the Mexican Health Department.

It is reported that the Mexican Government has ordered 37 boats, mostly tankers, from the Prince Rupert Dry Dock Co., of Ottawa, Canada.

Firms in the United States interested in pumice stone for importation should communicate with the American Chamber of Commerce, Mexico City, D. F., Mexico.

The Mexican export tariff permits the exportation of unshelled coconuts; and copra which is free of duty. The import tariff reclassifies powdered milk, opium and opium extract without affecting the rate of duty. A special permit is required by the Custom House from firms importing narcotics before entry can be made. The export duty of 5 cents per gross kilo on sodium chloride has been removed. This decree will become effective Nov. 1, 1920.

Exports to the U. S. for the month of September were very small: Vanilla, 5,984 kilos; jalap root, 975 kilos, honey 4,899 gallons, sarsaparilla root, 176 kilos; chicle, 670 kilos.

The National Gum and Mica Co. carried \$40,000 insurance on the building at 12 West End avenue, which was damaged by fire on Oct. 7, and \$70,000 on the contents.

## The Essential Oil Market

Current Spot Quotations of Essential Oils and Aromatic Chemicals, Page 864

### FURTHER ADVANCE IN OIL BERGAMOT

Higher Shipment Quotations Boost Market Here—Sharp Drop in Wormseed Oil Again—Spearmint Lower—Orange Oil Still Weak and Offered at Concessions

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

|   | Advanced | Oil Cedar Wood, 5c lb.   | Oil Petit Gratin, S.A., 5c lb. |
|---|----------|--------------------------|--------------------------------|
| Oil Bergamot, 75c lb.<br>Artificial, 25c lb.          |          |                          |                                |
| Oil Coriander, 82 lb.                                 | Declined | Oil Spearmint, 50c lb.   |                                |
| Oil Ginger, 50c lb.                                   |          | Oil Wormseed, 51 lb.     |                                |
| Oil Orange, Sicilian, \$1 lb.<br>West Indian, \$1 lb. |          | Amyl Salicylate, 10c lb. |                                |
| Cinnamic Acid, 50c lb.                                |          | Anisic Aldehyde, 50c lb. |                                |
|   |          | Coumarin, 50c lb.        |                                |

|                         | Trend of the Market | Today  | Last Week | Last Month | Last Year |
|-------------------------|---------------------|--------|-----------|------------|-----------|
| Oil Bergamot            |                     | \$7.00 | \$6.25    | \$6.00     | \$4.75    |
| Oil Citronella, Ceylon  |                     | .55    | .55       | .55        | .46       |
| Oil Cloves              |                     | 2.35   | 2.35      | 2.35       | 2.90      |
| Oil Lavender Flowers    |                     | 8.50   | 8.50      | 8.50       | 8.25      |
| Oil Lemon               |                     | 1.10   | 1.10      | 1.10       | 1.15      |
| Oil Peppermint, Natural |                     | 6.25   | 6.25      | 6.25       | 7.50      |
| Oil Sandalwood, E. I.   |                     | 11.00  | 11.00     | 11.25      | 11.00     |
| Oil Sassafras, Artif.   |                     | .70    | .70       | .70        | .61       |
| Benzaldehyde, U.S.P.    |                     | 1.00   | 1.00      | 1.00       | 1.25      |
| Coumarin                |                     | 6.00   | 6.50      | 6.50       | 7.00      |
| Methyl Salicylate       |                     | .75    | .75       | .75        | .55       |
| Vanillin                |                     | .85    | .85       | .85        | .78       |
| Average                 |                     | 3.74   | 3.79      | 3.83       | 3.85      |

Uninteresting dullness has thoroughly saturated the essential oil business in this market. The present problem is not so much a question of falling prices as this has to a great extent ceased except in individual cases, but the almost absolute lack of interest on the part of buyers is a thorn in the side of the trade. This attitude is of course, only natural with the market weak and holders here and there letting go under pressure at distress prices. Quotations move up and down but carry little significance owing to the limited range of business being done at any figure. In spite of the fact that the market continues weak and prices apparently look to lower, at present levels some very cheap purchases can be made by consumers.

Owing to higher cables, oil of bergamot has been advanced again in some quarters. Oil of lemon has firmed up considerably but the range of prices as to brand and seller is wide. Cedar wood oil is firmer. As new crop oil reaches this market, the spot price of wormseed has again dropped sharply. Coriander is lower with little demand. Oil of ginger is down owing to the easier position of the raw material. Both spot and shipment spearmint prices have been reduced. South American petit grain is scarce and higher. Orange oil figures continue to drop off with the market anything individual sellers wish to make it. Anisic aldehyde, cinnamic acid and amyl salicylate are lower. Coumarin is down.

#### Essential Oils

**Oil Anise**—Available stocks here are large and several lots have changed hands well under the market owing to the need of cash by holders. Selling pressure is the natural development of the heavy imports and general lack of buying. Spot technical oil is still held at 90c a pound with offers heard of goods in bond here at 70c. The c. i. f. figure from the Orient is not far under this. U. S. P. oil is held at \$1.00 a pound without change.

**Oil Bergamot**—Basing their ideas on higher shipment figures out of Sicily, some dealers here have advanced their prices for oil of bergamot sharply. The most generally named price for standard brands of

bergamot on the spot is \$7.00 a pound although as high as \$8.00 has been quoted. These figures compare with plenty of offers last week at \$6.00. Shipment material is reported to be held at \$6.00 c. i. f. The price advances in bergamot are not as a result of the demand which remains very light at this time. The artificial is higher at \$3.75@\$4.00 a pound.

**Oil Camphor**—The white Japanese oil is held at 50c a pound without change with demand reported small. By-product sassafrassy oil is still 12c in drums.

**Oil Caraway**—The position of the oil is unchanged at \$2.75 a pound for Dutch spot in five-pound bottles. Demand is very small and it is possible that this figure could be shaded in outside hands. Shipment material is still held at \$2.25 c. i. f. and a quotation of goods afloat at this figure has been heard. Seed is weak and unchanged at 7c for a quantity order.

**Oil Cassia**—The general position of oil of cassia is unchanged. Spot goods are named at \$1.50 for technical with replacement material quoted at \$1.35 c. i. f. from the Orient. Demand is routine and confined to small lots. Lead free oil is named still at \$1.60 a pound and the U. S. P. redistilled at \$2.00 firm.

**Oil Cedar Leaf**—The demand is not moving stocks here into consuming channels very rapidly. Spot goods are held at \$1.50@\$1.60 a pound for cans as to seller and quantity.

**Oil Cedar Wood**—The house which has been doing 60c for drums for some time has advanced the price to 65c inside. This apparently now is best for spot goods. Up to 75c is quoted for cans. Supplies are light and firmly held.

**Oil Citronella**—This item continues in a slump with little doing. Buying is very light and large lots are held here. Between dealers price shading is induced by the small amount of business being done here in this oil. Spot goods are openly named at 55c a pound for Ceylon oil in drums with cans quoted up to 60c@\$62½c a pound.

**Oil Cloves**—The firmer position of the spice has had no effect on the price of the oil owing to the meagre proportions of the demand from consuming quarters. Spot oil is still held at \$2.35@\$2.40 a pound for cans and up to \$2.50 for bottles. Less than this has been done on firm orders but does not represent the general run of quotations.

**Oil Coriander**—U. S. P. oil of coriander has been reduced owing to the larger stocks, the weak position of the seed and the small demand at this time. The new basis is \$33.00 a pound for spot oil.

**Oil Erigeron**—This item is easy at \$4.75 a pound on spot with shipment material named well under this, \$4.00 being the last offer heard.

**Oil Ginger**—The weakness of the raw material has been effective in easing the price of the oil somewhat. The new basis for spot oil of ginger is \$7.00 a pound.

**Oil Lavender Flowers**—The price here varies between \$8.50 and \$12.00 a pound as to seller and grade of oil. The demand is light. The 320 francs a kilo named by the Grasse syndicate as a minimum has apparently had little effect in bulking the market here.

**Oil Lemon**—The tone of the market for oil lemon this week is slightly better but as yet is far from firm. Dealers quote over a wide area as to brand and how badly they need the money. The most generally named level is \$1.10@\$1.20 a pound for original packages. As high as \$1.25 and \$1.40 continue to be named by two houses who are firm in their ideas and state that their

belief in the immediate future of the market will not let them sell under this. On the other hand, down to \$1.00 can still be done in one or two quarters. A few well-known consumers are reported to be in the market at present prices.

**Oil Orange**—Although both bergamot and lemon have a materially improved appearance this week, orange continues to be the "weak sister" of the group. Holders are closing out their stocks when and wherever possible at prices which vary widely. The openly named prices have taken another slump this week. Sicilian oil in coppers, standard brands, is now available on the spot at \$5.00 a pound while the West Indian has dropped to \$4.50. Even these prices are not likely to command a great deal of business when there are many holdups who are overanxious to clean out before the new shipments arrive. Shipment oil from Sicily is still held at \$3.30 a pound c. i. f.

**Oil Peppermint**—Natural oil for shipment from the West is named at \$5.50 a pound in this market. Spot natural is \$6.25 a pound with little demand. U. S. P. is still held at \$6.90@\$7.00 with an order likely to command \$6.75. Producers appear in no hurry to shade prices in the face of poor business and are reported very well able financially to hold on. Japanese mint oil is \$1.65 with rectified available at \$1.90 a pound.

**Oil Petit Grain**—South America still holds at high prices for shipment and American importers will not buy. Spot goods are scarce and higher this week at \$6.25 a pound.

**Oil Sandalwood**—Spot oil is still held at \$11.00 a pound with reports of some dealers doing well under this. Replacement cost of oil from London is about \$10.80 a pound laid down, duty paid, in New York.

**Oil Spearmint**—Prices are again lower on the reductions noted for shipment from primary markets. Spot goods can now be bought for \$7.50 a pound while reports state \$7.00 for shipment from the West. Demand is at low ebb.

**Oil Wormseed**—Another sharp break in the price of oil wormseed has followed the arrival of new crop goods in this market. Producers in Baltimore have likewise shaded their figures. Spot goods now vary as to seller at \$5.50, \$6.00 and \$6.50 a pound. For shipment \$4.50 a pound is now reported.

#### Aromatic Chemicals

**Amyl Salicylate**—In keeping with the generally easier position of salicylic acid, this item is down to \$1.65 a pound here.

**Anisic Aldehyde**—The price has been reduced to \$7.00 @\$8.50 a pound as to dealer.

**Cinnamic Acid**—The position of cinnamic acid is easier with offers naming lower prices at \$5.00 a pound.

**Coumarin**—Although the leading manufacturers are asking \$6.50 a pound still for coumarin, it is possible to buy from resellers and small makers at \$6.00. Demand is very light at this time.

The Southern Pacific, Santa Fe and Western Pacific railroad companies have decided upon new import and export rates through the port of San Francisco. These new rates, which will soon be effective, it is believed, are intended to equalize the rates to the Orient via Atlantic and Pacific ports. Since the recent increase in freight rates Atlantic ports have had a great advantage in shipping to the Orient. Prior to this increase import and export rates were the same from any port in the United States. The increase on August 26 raised the rail factor from the manufacturing centers to Pacific ports much more than from the same centers to Atlantic ports.

#### ESSENTIAL OILS IN DUTCH EAST INDIES

Fifteen estates in Java and one in Banca are exclusively devoted to the production of herbs yielding essential oils, other estates having mixed cultivation. The totals are:

|                      | Estates | Planted acres | Serehoil | Lemongrass |
|----------------------|---------|---------------|----------|------------|
|                      |         |               | Kilos    | Kilos      |
| Java .....           | 18      | 9,140         | 172,719  | 11,353     |
| Palembang ..         | 1       | ?             | 15,000   | —          |
| Banca .....          | 1       | 355           | 4,500    | —          |
| Celebes .....        | 1       | 195           | 4,139    | —          |
|                      |         |               | —        | —          |
| Totals for the Dutch |         |               |          |            |
| East Indies .....    | 9,690   | 196,358       | 11,353   |            |

The shipments of Citronella Oil from Java took the following course:

|                     |         |         |         |
|---------------------|---------|---------|---------|
| Holland .....       | 5,565   | .....   | 233,095 |
| Great Britain ..... | 213,631 | .....   | 91,264  |
| France .....        | 15,654  | .....   | 69,360  |
| United States ..... | 204,807 | 87,993  | 85,619  |
| Japan .....         | 50,437  | 80,867  | 6,912   |
| Total .....         | 515,763 | 223,124 | 528,534 |

#### AROMA CLUB TO RESUME MEETINGS

At a meeting of The Aroma Club recently called by the treasurer, Irvin S. Zeluff (Parfumerie Rigaud), it was determined to renew the weekly luncheon meetings of the organization, which were temporarily discontinued during the war. A get-together meeting will be held at an early date.

The Aroma Club has a membership of over 200. The purpose of the organization is to encourage co-operation among the leading figures in the perfume, essential oil and allied trades. During the pre-war period the weekly luncheons of The Aroma Club were marked by activities of an educational character.

It is requested by Mr. Zeluff that all members communicate immediately with him, with such suggestions as they may have as to the date and place to resume the regular meetings. Prospective new members should address Irvin S. Zeluff at 75 Barrow street, New York.

#### ONLY RENEWAL PERMITS GO TO CAPITAL

(*Special to DRUG AND CHEMICAL MARKETS*)

Washington, D. C., Oct. 19.—Prohibition Commissioner Kramer denies an order "divesting all regional enforcement officials of the power to issue permits." Mr. Kramer said he was at a loss to understand how such a report could have been made unless the fact that all applications for renewals of permits to do business either as wholesale dealers in intoxicating liquors for non-beverage purposes or as manufacturers, all of which permits expire under the law on December 31, 1920, will be sent to Washington as heretofore. The permits above mentioned relate solely to doing business and have no application to withdrawals from bonded warehouses.

Prof. Ruth Okey, of the University of California, Berkeley, Cal., has succeeded in isolating inulin from the California artichoke of commerce. This substance was formerly thought to occur only in certain bulbs and roots, such as Jerusalem artichokes and dahlia bulbs. Its suitability in treating diabetes is being investigated.

The plant of the Aromatic Products Co., Milwaukee, Wis., was destroyed by fire, Oct. 12. The flames started from spontaneous combustion. The loss is estimated at \$100,000.

## The Foreign Markets

Imports of Drugs, Chemicals, Dyestuffs, etc., Page 862

### STRIKE WEAKENS LONDON MARKET

Quotations Easier for Balsam Tolu, Cajuput Oil, Japanese Camphor and Mint Oil, Star Anise Oil, and Thymol—Prices Lower on English Camphor, Linseed Oil, and Saccharin

(Special Cable to DRUG AND CHEMICAL MARKETS)

London, Oct. 19.—Chemicals and drugs are weaker, owing to the miners' strike which is reflected in all industries and markets. There is an easier tone in balsam tolu, cadmium, oil of cajuput, Japanese refined camphor, citric acid, farina, gallic acid, jalap, Japanese mint oil, phenazone, star anise oil, and thymol.

Prices are lower for English camphor, formaldehyde, methyl ether, linseed oil, saccharin, sulphonated and turpentine.

London, Oct. 9 (By Mail)—General trade continues restricted, and the money market being very tight, does not tend to facilitate business.

Citric acid is quiet and easier, and may be bought on spot at 3s 8d per lb.

Dill seed is higher, ordinary quality East Indian having been sold at 22s 6d per cwt.

Ergot is now easier, Spanish being offered on spot at from 14s to 16s per lb., according to seller.

Eucalyptus oil is very firm for B. P., 3s 3d per lb. having been paid this week.

Formaldehyde is easier, 40 per cent volume being offered at 30s per cwt. in barrels.

Henna powder is in good demand, and is quoted at the high price of 300s per cwt.

Ipecacuanha root is easier, good Matto Grosso being obtainable at 15s per lb., and Cartagena at 14s per lb.

Lycopodium is very scarce and dear, price named being from 18s to 19s per lb.

Manna—The new crop is dearer, price now asked being 750s per cwt. in 1 lb. tins.

Milk sugar is 5s per cwt. lower, finest Dutch powder being offered at from 175s to 185s per cwt. according to quality.

Pepper is quiet, spot value of black being unchanged at 6½d per lb. for Singapore. White is firmer, with spot sales at 1s 3½d per lb.

Potassium bromide has again fallen in value, being now offered at 1s 8d to 1s 9d per lb.

Shellac is about 30s per cwt. lower on spot, on basis of 610s per cwt. for usual standard T. N. Orange.

Tartaric acid is cheaper, with offers of powder or crystal at 2s 7d per lb.

Valerian root is lower, new crop Belgian being offered at from 115s to 125s per cwt.

The exports of nitrate from Chile during July were 4,613,000 quintals (quintal equals 46 kilos or 101.4 pounds), compared with 2,533,000 in July, 1919, and 5,077,000 in July, 1918.

|                                | FOREIGN EXCHANGE | Par    | Current |
|--------------------------------|------------------|--------|---------|
| Great Britain (pound sterling) | \$4.866          | \$3.43 |         |
| France (franc)                 | .193             | .065   |         |
| Italy (lira)                   | .193             | .039   |         |
| Germany (mark)                 | .238             | .014   |         |
| Japan (yen)                    | .499             | .511   |         |
| Spain (peseta)                 | .193             | .142   |         |
| Holland (guilder)              | .402             | .309   |         |
| Belgium (franc)                | .193             | .068   |         |
| Switzerland (franc)            | .198             | .158   |         |
| Norway (crown)                 | .268             | .139   |         |
| Sweden (crown)                 | .263             | .199   |         |
| Denmark (crown)                | .263             | .139   |         |
| Argentina (peso)               | .424             | .356   |         |
| Brazil (milreis)               | .279             | .170   |         |
| China (Silver dollar—Hongkong) | .789             | .700   |         |
| (Tael—Shanghai, silver)        | 1.082            | .955   |         |
| (Tael—Peking, silver)          | 1.156            | 1.020  |         |
| Russia (ruble)                 | .515             | .120   |         |

### TOKYO PRICES OF FINE CHEMICALS

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, Sept. 12.—Codeine phosphate is firm on account of a short supply, though opium alkaloids are weak. Buyers offer 15 yen, but sellers are firm at 16 yen. Caffeine is somewhat stronger and is quoted at 23.50 yen per pound. Urotropin, which showed activity for a time, has again begun to revive owing to export demand. The price is 9.40 yen per pound.

Bismuth salts are sold briskly and the quotations remain unchanged. Subnitrate is quoted at 5.70 yen per pound, subgallate at 5.70 yen per pound, and salicylate at 8.80. Sodium salicylate has risen to 1.65 yen on account of scarcity.

Ergot rose to an unusual point owing to short supply, but since the arrival of a large shipment at Osaka, it has declined to 18 yen per pound, and the extract is unchanged at 17 yen per ounce.

Boric acid crystals are strong, on account of a depleted market and are quoted at 110 yen per barrel, but powder is 95 yen per barrel as the stock is plentiful.

Morphine hydrochloride is weak and is quoted at 220 yen. Milk sugar is immobile at 28 sen a pound, owing to large stocks. The demand for saccharine is inactive and the price has fallen to 16 yen per pound.

Tartaric acid, which fell at one time to 70@80 sen per pound has been re-exported to Europe and America in fairly large quantities and the market has been restored as a result. Tartaric acid for industrial use finds buyers, at 90 sen, but sellers will not part with stocks at less than 1 yen to 1.20 yen.

Santonin shows an advance. Buyers offer 19 yen for 25 grams, but sellers are firm at 19.50 yen. A further rise is generally expected.

Quinine advanced recently owing to the rise abroad, delayed shipments and the destruction of a great quantity by a fire at the Hoshi factory, but the quotation has now fallen. Quinine sulphate is selling at 1.65 yen per ounce.

The Canadian government has made a change in the regulations governing the denaturation of alcohol for industrial purposes, with a view to making it available at a more reasonable price. Circulars have been issued by the Department of Internal Revenue authorizing the manufacture and sale without restriction of a new grade to be known as Grade No. 2 Benzol. The denaturants used in this are benzol, nitro-benzol and pine oil. The cost of these will be small as compared with the price of methyl alcohol, which was formerly the only denaturant allowed to be used.

## JAPAN STOPS INDIGO IMPORTS

(Special Correspondence to DRUG &amp; CHEMICAL MARKETS)

Tokyo, Japan, Sept. 12.—The lull in weaving circles, consequent upon the general economic depression and tight money, has seriously hurt the indigo business in Japan. Owing to the cessation of sales through slack business, the stocks have accumulated considerably and prices have been subject to repeated declines since last spring. The indigo merchants in Tokyo, Yokohama and elsewhere held a meeting in Tokyo a few days ago and discussed measures for checking further depreciation in the market price and for diminishing the stocks.

A decision was reached to stop absolutely the importation of foreign indigo for six months, commencing this month, as a means of using up the accumulated stock and maintaining a good price in the market. A resolution also was passed at the meeting that those who act in violation of the foregoing decision should be fined not less than 1,000 yen and not more than 10,000 yen.

## CANADA TO CONSIDER DYE TARIFF

(Special to DRUG AND CHEMICAL MARKETS)

Montreal, Canada, Oct. 18.—The necessity of a tariff against German dyes has been laid before the Minister of Finance, Sir Harry Drayton on behalf of British dyestuff manufacturers, five of whom are represented in Canada. While actual figures are not available, it is believed among the dyestuff men that the textile mills in Canada are the largest users, but that coming developments will bring the pulp and paper mills to the front, as already quantities in excess of \$1,000,000 are consumed by these mills in a single year. Already some firms are underbidding the British dyers for Canadian business. The matter will be taken up by the Tariff Commission this month.

## Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

33790—Bids are desired by a municipality in the Azores for the construction and maintenance of an hydroelectric plant to supply power for public and private lighting for two cities. Interested firms should submit proposals for the installation and supply of all electrical and mechanical appliances, machinery, turbines, etc. The preliminary work is about completed and only lacks the installation of the machinery and appliances indicated in the specifications, a copy of which, together with blank bids, in Portuguese, were received and may be examined at the bureau or its district offices. (Refer to file No. 15261.) Correspondence may be in English.

33890—A commercial representative in Switzerland desires to represent firms dealing in cottonseed oil, edible fats, starch, sugar, canned meats, canned fruit, canned milk, molasses, spices, and food products. Reference.

33866—A commercial agent in Brazil desires to represent firms exporting industrial and pharmaceutical chemicals, drugs, dyes, and rubber goods. Good packing is essential. Quotations should be given c. i. f. Brazilian port or f. o. b. American port. Terms: 60 and 90 days' draft. Correspondence may be in English. References.

33871—An importer of industrial supplies in Italy desires commercial relations with American manufacturers of industrial chemicals, products, and supplies used in the manufacture of cotton, wool, paper, and glass; and such products as are used in tanner's and soap works. No references offered.

33891—A commercial agency in Argentina desires to purchase carbon sulphide. Quotations should be c. i. f. Argentine port, and on lots of 10, 25, and 50 metric tons, packed in drums of 200 to 500 kilos; also quote on same quantity packed in tins of 10 and 25 kilos. Terms, cash against documents. References.

## VALUE OF RUSSIA'S CHEMICAL INDUSTRIES

(Special to DRUG AND CHEMICAL MARKETS)

Washington, Oct. 19.—The value of the chemical factories in Russia prior to the war was about 3,000,000 rubles, and the value of the production approximately 600,000,000 rubles per annum. From 1910 to 1914 all industries combined increased, on an average, from two to two and one-half times while the chemical industry increased four times. This shows that the latter developed much more rapidly than all other industries, according to a report prepared by the Russian, Division, Bureau of Foreign and Domestic Commerce.

Before the war wages in all industries amounted to an average of about 10 per cent of the value of the articles produced, in the chemical industry about 5 per cent, and in the metal industry about 25 per cent. During the war the chemical industry expanded greatly. The number of workers doubled, which brought the figure to 400,000.

The importation of dyes (in 1913, 14,600,000 rubles), photographic and pharmaceutical goods (in 1913, about 10,000,000 rubles) will continue after the war. It can be expected, however, that the production of these commodities will begin in Altai, in the Kuznetsk region, and in the Donets Basin, for the reason that by-products obtained from reducing coal into coke are available in those places. Coke is produced mainly for the metallurgical chemical industry, and if this industry is enlarged there will be an increased production of dyes and photographic and pharmaceutical products. The textile factories at Moscow and Petrograd will continue to import dyes for several years to come, but the textile factories which will be established in the Semipalatinsk region will probably be supplied with dyes made in Altai.

The most important item of the chemical industry in Russia is artificial fertilizers. The following figures show the production in Russia and the importation into the country of phosphates, nitrates, and potassic compounds for the years 1913 and 1916:

|                            | 1913       | 1916      |
|----------------------------|------------|-----------|
| Phosphates:                |            |           |
| Produced in Russia .....   | 11,200,000 | 3,500,000 |
| Imported into Russia ..... | 23,200,000 | .....     |
| Nitrates:                  |            |           |
| Produced in Russia .....   | .....      | 300,000   |
| Imported into Russia ..... | 3,000,000  | .....     |
| Potassic compounds:        |            |           |
| Imported into Russia ..... | 5,000,000  | .....     |

Russia has enormous beds of phosphates, but they are not of very high quality. It is possible that this phosphate will be used for the preparation of superphosphate fertilizers. On a basis of 1 pood of superphosphate per dessiatine in Russia, the total amount needed per annum is 120,000,000 poods, for which 60,000,000 poods of sulphuric acid is needed. In order to produce this amount, it is necessary (1) that all factories which formerly produced sulfuric acid and explosives begin to produce superphosphate, and (2) to adopt some means of catching the gases which escape when melting copper in the Urals. From the gases there can be obtained superphosphate and sulfuric acid, the latter possibly to the amount of 35,000,000 poods.

Phosphate rock can be obtained from the Governments of Podolsk, Kiev, Kursk, Orel, Vyatka, and others. It will be possible to obtain an additional amount of phosphate from the Thomas-slag works when they are enlarged. Thomas-slag works are located in Taganrog, Kertch and Mariupol.

# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**NOTICE**—Prices quoted are spot New York, unless otherwise indicated, for goods in large quantities in original packages. A price range (two sets of figures, .16-.49) indicates prices for different quantities or that different manufacturers or importers quote different prices, all of which are included within the range.

All quotations are on the basis of avoirdupois pounds and ounces and American gallons. For the ready reference of exporters and foreign buyers, the following tables of equivalents are published:

## WEIGHTS AND MEASURES

1 Imperial Gallon (Brit.)—1.20 Amer. Gallons  
1 American Gallon—.83 Imperial Gallon  
1 American Gallon—3.79 liters  
1 Liter—.264 American Gallon  
1 American Gallon (H<sub>2</sub>O) weighs 8.35 pounds  
1 Pound (Avoirdupois) weighs .454 kilogram  
1 Kilogram weighs 2.20 pounds (Avoirdupois)

## Fine Chemicals

|                                  |                                 |       |        |  |                         |       |       |     |
|----------------------------------|---------------------------------|-------|--------|--|-------------------------|-------|-------|-----|
| Berberine Hdcchl.                | lb.                             | —     | —34.00 | Glycerin                               | C. P. drums bbls. extra | lb.   | .26½  | .27 |
| Acid Sulfate                     | lb.                             | —     | —31.00 | Cans                                   | lb.                     | .29   | .30   |     |
| Neutral sulfate                  | lb.                             | —     | —35.00 | Dynamite, drums incl.                  | lb.                     | .28   | .25½  |     |
| Bismuth Metallic                 | lb.                             | 2.50  | —2.75  | Saponification, loose                  | lb.                     | —     | .18   |     |
| Ammon. Citrate, U.S.P.           | lb.                             | —     | —5.80  | Soap Lye, loose                        | lb.                     | .16½  | .17   |     |
| Citrate, U.S.P.                  | lb.                             | —     | —2.10  | Glycerol, liquid                       | lb.                     | 6.00  | 6.50  |     |
| Oxchloride                       | lb.                             | —     | —3.30  | Carbonate                              | lb.                     | 6.50  | 7.00  |     |
| Salicylate                       | lb.                             | —     | —2.45  | Subcarbonate                           | lb.                     | —     | —     |     |
| Sulbenzoate                      | lb.                             | —     | —2.40  | Hydrochloride                          | lb.                     | —     | —     |     |
| Subcarbonate, U.S.P.             | lb.                             | —     | —3.10  | Hydrochloride, U.S.P.                  | lb.                     | —     | —     |     |
| For X-ray Diagnosis              | lb.                             | —     | —3.65  | Sulfate                                | lb.                     | —     | —     |     |
| Subgalate                        | lb.                             | —     | —2.85  | Hydrogen Peroxide, U.S.P., 10 gr. lots | lb.                     | 9.25  | 9.50  |     |
| Subiodide                        | lb.                             | —     | —4.95  | 4-oz. bottles                          | lb.                     | —     | —     |     |
| Subnitrate                       | lb.                             | —     | —2.85  | 8-oz. bottles                          | lb.                     | 14.25 | 14.50 |     |
| Subsalicylate                    | lb.                             | —     | —3.00  | 12-oz. bottles                         | lb.                     | —     | .75   |     |
| Tannate                          | lb.                             | —     | —3.10  | 16-oz. bottles                         | lb.                     | 23.25 | 23.50 |     |
| Borax, in bbls, crystals         | lb.                             | .00½  | .094   | Hydroquinone, bulk                     | lb.                     | 2.00  | 2.10  |     |
| Crystals, U.S.P., Kegs.          | lb.                             | .00½  | .094   | Hyoscine Hydrobromide                  | oz.                     | 70.00 | 75.00 |     |
| Bromides, See Potass. Brom, etc. | lb.                             | —     | —      | Hyoscymine Alkaloid                    | oz.                     | 48.00 | 50.00 |     |
| Bromine, purified                | lb.                             | —     | .75    | Sulfate                                | oz.                     | 48.00 | 50.00 |     |
| Bromoform                        | lb.                             | —     | —3.00  | Iodides, See Potass. Iodide, etc.      | lb.                     | —     | —     |     |
| Cadmium Bromide, crystals        | lb.                             | 1.50  | —1.75  | Iodine, Resublimed                     | lb.                     | —     | 4.35  |     |
| Iodide                           | lb.                             | —     | —4.30  | Tincture U.S.P., bbls.                 | gal.                    | —     | 5.00  |     |
| Metal sticks                     | lb.                             | 1.40  | —1.45  | Iodoform, Powdered, bulk               | lb.                     | —     | .53   |     |
| Caffeine alkaloid, bulk          | lb.                             | 7.50  | —7.75  | Crystals                               | lb.                     | —     | 6.38  |     |
| Second Hands                     | lb.                             | 7.50  | —7.75  | Iron Citrate, U.S.P., VIII.            | lb.                     | —     | 1.13  |     |
| Hydrobromide                     | lb.                             | 8.00  | —8.25  | and Ammon. Citrate, U.S.P. lb.         | —                       | —     | .98   |     |
| Citrate, U.S.P.                  | lb.                             | 6.00  | —6.10  | Green scales, U.S.P., lb.              | —                       | —     | 1.24  |     |
| Phosphate                        | lb.                             | 10.00 | —10.25 | Chloride, cryst. (ferric)              | lb.                     | .12   | .13   |     |
| Calcium Glycerophosphate         | lb.                             | 1.70  | —1.75  | Iodide                                 | lb.                     | —     | 3.90  |     |
| Hypophosphites                   | lb.                             | .90   | —.92   | Syrup, U.S.P., 1900                    | lb.                     | —     | .30   |     |
| Iodide                           | lb.                             | —     | —4.00  | Phosphate, U.S.P.                      | lb.                     | —     | .98   |     |
| Phosphate, Precip.               | lb.                             | .18   | —.19   | Pyrophosphate, U.S.P.                  | lb.                     | —     | 1.03  |     |
| Sulfocarboilate                  | lb.                             | .70   | —.75   | Metallic, Reduced                      | lb.                     | —     | 1.10  |     |
| Camphor, Am. ref'd bbls, bk. lb. | lb.                             | —     | —1.30  | Lead Iodide, U.S.P., VIII.             | lb.                     | —     | 3.05  |     |
| 16's in 1-lb. carton             | lb.                             | —     | —1.35  | Licorice, U.S.P., Mass.                | lb.                     | —     | .47   |     |
| 24's in 1-lb. carton             | lb.                             | —     | —1.37½ | Powdered                               | lb.                     | .70   | .75   |     |
| 32's in 1-lb. carton             | lb.                             | —     | —1.39  | Sticks                                 | lb.                     | .50   | .52   |     |
| Japan refined, 2½ lb. slabs, lb. | lb.                             | —     | —1.20  | Corp. Powder                           | lb.                     | .21   | .25   |     |
| Crude, Chinese                   | lb.                             | .75   | —.80   | Lithium Carbonate                      | lb.                     | —     | 1.50  |     |
| Monobromated, bulk               | lb.                             | 3.05  | —3.10  | Citrate                                | lb.                     | —     | 2.50  |     |
| Caramel                          | gal.                            | 5.70  | —5.80  | Lycopodium                             | lb.                     | 4.00  | 4.25  |     |
| Carmine, No. 40                  | lb.                             | —     | —.35   | Magnesium Carb. U.S.P. bbls.           | lb.                     | .18   | .20   |     |
| Casein, C.P.                     | lb.                             | —     | —.16   | Technical, bbls.                       | lb.                     | .12   | .13   |     |
| Technical                        | lb.                             | .18   | —.16   | Blocks, cases, 1, 2, 4 ozs.            | lb.                     | .22   | .24   |     |
| Castor Oil, AA bbls              | lb.                             | .15   | —.15½  | Glycerophosphate                       | lb.                     | —     | 3.30  |     |
| Cherim. Oxalate                  | lb.                             | .90   | —.92   | Hypophosphite                          | lb.                     | 1.65  | 1.70  |     |
| Chalk, Precip., light            | lb.                             | .04½  | —.04½  | Oxide, tins light                      | lb.                     | —     | 1.10  |     |
| Heavy                            | lb.                             | .04   | —.04½  | Peroxide, cans                         | lb.                     | —     | 2.15  |     |
| Drop                             | lb.                             | .02½  | —.03   | Salicylate                             | lb.                     | —     | .60   |     |
| Charcoal, Willow, Powd.          | lb.                             | .06   | —.07   | Sulfate-Eps. Salt, Tech. 100 lbs.      | lb.                     | 3.00  | 3.25  |     |
| Chloral Hydrate, U.S.P., crys.   | tbls, 25 lb. jars, 100 lb. lots | —     | —1.01  | U.S.P. 100 lbs.                        | lb.                     | 3.50  | 4.00  |     |
| Chloroform, U.S.P.               | tbls                            | —     | —.43   | Manganese Glyceroph.                   | lb.                     | 3.00  | 3.10  |     |
| Cinchonidin, Alk., crystals      | oz.                             | —     | —1.45  | Hypophosphite, U.S.P., VIII.           | lb.                     | 2.00  | 2.10  |     |
| Sulfate                          | oz.                             | .85   | —1.00  | Iodide                                 | lb.                     | 4.65  | 6.00  |     |
| Cinchonine, Alk., crystals       | oz.                             | —     | —.74   | Sulfate, crystals                      | lb.                     | .20   | .22   |     |
| Sulfate                          | oz.                             | —     | —.45   | Menthol, Japanese                      | lb.                     | 5.65  | 5.75  |     |
| Cocaine, Hydrochl., Cryst.       | oz.                             | —     | —10.50 | Mercury, flasks, 75 lb.                | ea.                     | —     | 70.00 |     |
| Gran., Powd.                     | oz.                             | —     | —10.75 | Bisulfate                              | lb.                     | —     | .89   |     |
| Cocoa Butter, bulk               | lb.                             | .33   | —.35   | Blue Mass                              | lb.                     | —     | .66   |     |
| Fingers, cases                   | lb.                             | .45   | —.45   | Powdered                               | lb.                     | —     | .68   |     |
| Codeine, Alk., 25 oz. lots       | oz.                             | —     | —11.40 | Blue Ointment, 30 p.c.                 | lb.                     | —     | .66   |     |
| Hydrobromide                     | oz.                             | —     | —9.10  | 50 p.c.                                | lb.                     | —     | .88   |     |
| Nitrate                          | oz.                             | —     | —10.30 | Citrine Ointment                       | lb.                     | —     | .54   |     |
| Phosphate                        | oz.                             | —     | —8.60  | Calomel, Amer.                         | lb.                     | —     | 1.31  |     |
| Sulfate                          | oz.                             | —     | —9.10  | Corrosive Sublimate cryst.             | lb.                     | —     | 1.24  |     |
| Cod Liver Oil, Newf'd.           | tbl.                            | 55.00 | —58.00 | Powdered Granular                      | lb.                     | —     | 1.19  |     |
| Norwegian                        | tbl.                            | 55.00 | —60.00 | Iodide, Green                          | lb.                     | —     | 3.61  |     |
| Collodion, U.S.P.                | tbl.                            | .30   | —.31   | Red                                    | lb.                     | —     | 3.71  |     |
| Corn Syrup                       | tbl.                            | .04½  | —.04½  | Yellow                                 | lb.                     | —     | 3.61  |     |
| Corrosive Sublimate, see Mercury | Chemicals                       | —     | —      | Red Precipitate                        | lb.                     | —     | 1.43  |     |
| Coumarin, refined, see Aromatic  | Chemicals                       | —     | —      | Powdered                               | lb.                     | —     | 1.53  |     |
| Cream of Tartar, cryst. U.S.P.   | lb.                             | .48   | —.53   | White Precipitate                      | lb.                     | —     | 1.60  |     |
| Powdered, 99 p.c.                | lb.                             | .48   | —.53   | Powdered                               | lb.                     | —     | 1.65  |     |
| Creosote, U.S.P.                 | lb.                             | .70   | —.72   | With chalk                             | lb.                     | —     | .66   |     |
| Carbonate                        | lb.                             | 3.00  | —3.25  | Methyl salicylate, see Aromatic        | Chemicals               | —     | —     |     |
| Cresol, U.S.P.                   | lb.                             | .18   | —.21   | Methylene Blue, medicinal              | lb.                     | 7.00  | 7.50  |     |
| Dover's Powder                   | lb.                             | —     | —2.75  | Milk, powdered                         | lb.                     | .15   | .16   |     |
| Emetine, Alk., 15 gr. vials.     | ea.                             | —     | —2.00  | Mineral Oil, white                     | gal.                    | 1.00  | 2.00  |     |
| Hydrochloride, U.S.P.            | oz.                             | —     | —30.00 | Morphine, Acet., 25oz.                 | oz.                     | —     | 7.50  |     |
| 15 gr. vials.                    | ea.                             | —     | —1.33  | Hydrobromide                           | oz.                     | —     | 7.80  |     |
| Epsom Salt, see Mag. Sulfate     | oz.                             | 41.00 | —42.50 | Hydrochloride                          | oz.                     | —     | 7.80  |     |
| Eserine Sulfate                  | oz.                             | —     | —      | Sulfate                                | oz.                     | —     | 7.80  |     |
| Ether, U.S.P., Conc. bulk        | lb.                             | —     | —.24   | Diacetyl, Alkaloid 10-oz.              | oz.                     | —     | 11.90 |     |
| Washed, bulk                     | lb.                             | —     | —.40   | Diacetyl, Hydcl.                       | oz.                     | —     | 10.85 |     |
| Nitrous, conc.                   | lb.                             | —     | —1.10  | Ethyl Hydcl.                           | oz.                     | —     | 12.45 |     |
| U.S.P., 1880, bulk               | lb.                             | —     | —.47   | Opium, cases, U.S.P.                   | lb.                     | —     | 7.50  |     |
| Anaesthesia, bulk                | lb.                             | —     | —.28   | Granular                               | lb.                     | —     | 8.50  |     |
| Ethyl Acetate, pure              | gal.                            | —     | —1.05  | Powdered, U.S.P.                       | lb.                     | —     | 8.50  |     |
| Iodide                           | lb.                             | —     | —5.20  | Oxgall, pure U.S.P.                    | lb.                     | 1.50  | 1.55  |     |
| Ethyl Methyl Ketone              | lb.                             | 22½   | —23    | Pancreatin                             | lb.                     | 4.25  | 4.50  |     |
| Eucalyptol, U.S.P., See Aromatic | Chemicals                       | —     | —      | Papain                                 | lb.                     | —     | 3.50  |     |
| Formaldehyde                     | lb.                             | —     | —.40   | Parafin White Oil, U.S.P.              | gal.                    | 3.10  | 3.60  |     |
| Second Hands                     | lb.                             | .30   | —.33   | Paraformaldehyde                       | lb.                     | —     | 1.50  |     |
| Gelatin, silver                  | lb.                             | 1.70  | —1.75  | Pepsin, Powd., U.S.P.                  | lb.                     | 3.00  | 3.50  |     |
| “Nominal                         | —                               | —     | —      | —                                      | —                       | —     | —     |     |

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Collodion Flexible  
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Soda Bicarbonate, etc.

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## Fine Chemicals, Acids, and Crude Drugs

|  |     |      |     |                    |                                      |          |       |      |                    |                                     |                           |                    |      |                  |     |
|--|-----|------|-----|--------------------|--------------------------------------|----------|-------|------|--------------------|-------------------------------------|---------------------------|--------------------|------|------------------|-----|
| Petrolatum, light amber bbls. lb.                  | —   | —    | 10% | partein Sulfate    | oz.                                  | 2.75     | —     | 3.30 | Agaric, white      | lb.                                 | —                         | —                  | 90   |                  |     |
| Cream White  | lb. | .12  | —   | 12%                | Strontium Brom. Cryst.               | blk. lb. | .55   | —    | .57                | Almonds, bitter                     | lb.                       | .35                | —    | .40              |     |
| Lily White   | lb. | .19  | —   | —                  | Carbonate, pure                      | lb.      | .40   | —    | .41                | Sweet                               | lb.                       | .45                | —    | .50              |     |
| Snow White   | lb. | .21  | —   | 20                 | Iodide, bulk                         | lb.      | —     | —    | 3.60               | Meal                                | lb.                       | —                  | —    | .35              |     |
| Phenolphthalein                                    | lb. | 1.60 | —   | 1.65               | Nitrate, Kegs                        | lb.      | .15   | —    | .16                | Amberrgis, black                    | oz.                       | —                  | —    | 10.40            |     |
| Phosphorus, yellow                                 | lb. | .35  | —   | .40                | Salicylate, U.S.P.                   | lb.      | .50   | —    | .55                | Grey                                | lb.                       | —                  | —    | .25 <sup>p</sup> |     |
| Red  | lb. | .50  | —   | .50                | Strychnine Alka., cryst.             | oz.      | —     | —    | 1.95               | Areca Nuts                          | lb.                       | .17                | —    | .20              |     |
| Phloccarpine                                       | oz. | —    | —   | —                  | Acetate                              | oz.      | —     | —    | 1.95               | Powdered                            | lb.                       | .20                | —    | .22              |     |
| Piperazine Hydrate                                 | lb. | —    | —   | —                  | Hypophosphite                        | oz.      | —     | —    | 2.15               | Balm of Gilead Buds                 | lb.                       | —                  | —    | 1.60             |     |
| Podophyllin  | lb. | 9.00 | —   | 9.50               | Hydrochloride                        | oz.      | —     | —    | 1.95               | Burgundy Pitch, Dom.                | lb.                       | .08 <sup>1/2</sup> | —    | .094             |     |
| Potassium acetate                                  | lb. | .75  | —   | —                  | Nitrate                              | oz.      | —     | —    | 1.95               | Cantharides, Chinese                | lb.                       | 1.00               | —    | 1.10             |     |
| Bicarbonate, U.S.P.                                | lb. | .30  | —   | .32                | Sulfate, crystals, bulk              | oz.      | —     | —    | 1.55               | Powdered                            | lb.                       | 1.40               | —    | 1.45             |     |
| Bisulfite  | lb. | .45  | —   | .50                | Sugar of Milk, Powder                | lb.      | .26   | —    | .26%               | Russian, whole                      | lb.                       | —                  | —    | 3.00             |     |
| C. P.  | lb. | .75  | —   | .85                | Cartons, 1 lb.                       | lb.      | —     | —    | .35                | Powdered                            | lb.                       | —                  | —    | 3.25             |     |
| Bromate  | lb. | 1.00 | —   | 1.10               | Sulfonal, 100-oz. lots               | oz.      | —     | —    | .55                | Castoreum                           | lb.                       | —                  | —    | 5.00             |     |
| Bromide Crystals, bulk.                            | lb. | .63  | —   | .64                | Sulfonethylmethane, U.S.P.           | lb.      | 9.25  | —    | 9.50               | Charcoal Willow, powdered           | lb.                       | .05 <sup>1/2</sup> | —    | —                |     |
| Granulated   | lb. | .60  | —   | .61                | Sulfomethane, U.S.P.                 | lb.      | 7.50  | —    | 7.75               | Wood, powdered                      | lb.                       | .04                | —    | .06              |     |
| Second Hands                                       | lb. | —    | —   | .45                | Sulfur, roll, bbls.                  | 100 lbs. | 3.45  | —    | 3.90               | Fivet                               | oz.                       | 2.75               | —    | 3.00             |     |
| Carbonate, U.S.P.                                  | lb. | .50  | —   | .52                | Flour, 100 p. pure                   | 100 lbs. | 3.60  | —    | 4.25               | Colocynth, Apples                   | Pulp, U.S.P.              | lb.                | .30  | —                | .35 |
| Caustic, U.S.P. (by alcohol)                       | lb. | —    | —   | 1.25               | Flowers, 100 p. pure                 | 100 lbs. | 3.80  | —    | 4.35               | Spanish Apples                      | Cuttlefish Bone, Trieste. | lb.                | .34  | —                | .35 |
| Chlorate   | lb. | .18  | —   | .18%               | Precip., U.S.P.                      | lb.      | —     | —    | .35                | Jewelers, large                     | lb.                       | .35                | —    | .36              |     |
| Chromate, cryst. yellow,<br>tech. 1-b. c. b. 10... | lb. | —    | —   | .75                | Tartar Emetic, tech.                 | lb.      | —     | —    | .62                | French                              | lb.                       | 1.50               | —    | 1.55             |     |
| Crilate, bulk, U.S.P.                              | lb. | —    | —   | 1.69               | U.S.P.                               | lb.      | —     | —    | .68                | Dragon's Blood, Mass.               | lb.                       | 1.40               | —    | 1.45             |     |
| Glycerophosphate, 75%                              | oz. | —    | —   | 1.90               | Talcum, Amer.                        | lb.      | .02   | —    | .02 <sup>1/2</sup> | Reeds                               | lb.                       | .35                | —    | .40              |     |
| Guaiacol Sulfate                                   | lb. | 6.50 | —   | 7.00               | Purified                             | lb.      | .05   | —    | .06                | Ergot, Russian                      | lb.                       | —                  | —    | 1.35             |     |
| Hypophosphite, bulk                                | oz. | 1.75 | —   | 1.80               | Terpin Hydrate                       | lb.      | 1.05  | —    | 1.10               | Spanish                             | lb.                       | —                  | —    | 2.75             |     |
| Iodide, bulk                                       | lb. | 3.20 | —   | 3.25               | Thecbromine Alkaloid                 | lb.      | 10.00 | —    | 10.25              | Grains of Paradise                  | lb.                       | .30                | —    | .33              |     |
| Lactophosphate                                     | oz. | —    | —   | 1.00               | Thymol, crystals, U.S.P.             | lb.      | 11.00 | —    | 11.50              | Honey, Calif.                       | lb.                       | .80                | —    | .85              |     |
| Permanganate, U.S.P.                               | oz. | .65  | —   | .70                | Iodide, U.S.P., bulk                 | lb.      | —     | —    | 14.50              | Guarana                             | lb.                       | .18                | —    | .20              |     |
| Salicylate   | lb. | 1.45 | —   | 1.50               | Tin, bichloride, see Heavy Chemicals | lb.      | —     | —    | .60                | Hops, N. Y., prime                  | lb.                       | .65                | —    | .70              |     |
| Sulfate, C.P.                                      | lb. | 1.11 | —   | 1.16               | Oxide, 500 th. bbls.                 | lb.      | —     | —    | —                  | Pacific Coast, prime                | lb.                       | .65                | —    | .70              |     |
| Tartate, powdered                                  | lb. | —    | —   | 1.25               | Toluene, See Coal Tar Crudes         | lb.      | —     | —    | —                  | Isinglass, American (see Agar Agar) | lb.                       | —                  | —    | —                |     |
| Procaine, oz. bottles.                             | —   | 7.00 | —   | 7.25               | Tribromophenol                       | lb.      | —     | —    | 1.50               | Russian                             | lb.                       | 9.00               | —    | 10.00            |     |
| 5 gr. bottles                                      | lb. | 1.50 | —   | 1.60               | Trional                              | oz.      | —     | —    | .67                | Kamala                              | lb.                       | —                  | —    | 5.00             |     |
| Pumice Stone                                       | lb. | —    | —   | .02 <sup>1/2</sup> | Vanillin, see Aromatic Chemicals     | lb.      | —     | —    | —                  | Kola Nuts, West Indies.             | lb.                       | .13                | —    | .14              |     |
| Pyramidon, See Amidopyrine                         | —   | —    | —   | —                  | Witch Hazel, Ext., dbl. dist.,       | gal.     | 1.25  | —    | 1.35               | Leeches                             | C.                        | —                  | —    | —                |     |
| Pyridin  | —   | —    | —   | 2.75               | bbl.                                 | —        | —     | —    | Lupulin            | lb.                                 | 1.50                      | —                  | 1.75 |                  |     |
| Quicksilver, See Mercury                           | —   | —    | —   | 3.00               | Zinc Carbonate                       | lb.      | —     | —    | .16                | Lycopodium                          | lb.                       | 4.00               | —    | 4.25             |     |
| Quinine Sulf., 100-oz. tins.                       | oz. | —    | —   | —                  | Chloride, U.S.P.                     | lb.      | .45   | —    | .50                | Manna, large flake                  | lb.                       | .85                | —    | .90              |     |
| Second Hands, Java.                                | oz. | .75  | —   | .76                | Iodide, bulk                         | lb.      | —     | —    | 3.85               | —                                   | —                         | —                  | —    |                  |     |
| Second Hands, Amer.                                | oz. | .80  | —   | .82                | Oxide, U.S.P., bbls.                 | lb.      | .18   | —    | .20                | —                                   | —                         | —                  | —    |                  |     |
| Bisulfate, 100-oz. tins.                           | oz. | —    | —   | .80                | Stearate                             | lb.      | .38   | —    | .39                | —                                   | —                         | —                  | —    |                  |     |

## Acids

|  |            |        |        |
|--|------------|--------|--------|
| Citrate                                    | oz.        | —      | 1.17   |
| Dihydchloride                              | oz.        | —      | 1.17   |
| Dicarbonate                                | oz.        | —      | 5.00   |
| Ethyl Carbonate                            | oz.        | —      | 2.50   |
| Hydrochloride                              | oz.        | —      | 1.07   |
| Hypophosphite                              | oz.        | —      | 1.17   |
| Phosphate                                  | oz.        | —      | 1.07   |
| Salicylate                                 | oz.        | —      | 1.07   |
| Tannate                                    | oz.        | —      | .80    |
| Valerate, powd.                            | oz.        | —      | 2.00   |
| Quinidine Alk. crystals, tins.             | oz.        | —      | 1.45   |
| Sulfate, tins                              | oz.        | —      | 1.00   |
| Resorcinol, crystals, U.S.P.               | lb.        | —      | 2.75   |
| Technical, See Intermediates               |            |        |        |
| Rochelle Salt, crystals, bxs.              | lb.        | —      | .37    |
| Powdered, bbls.                            | lb.        | —      | .37    |
| Rosewater, triple                          | gal.       | —      | 1.25   |
| Saccharin, U.S.P., soluble                 | lb.        | 2.75   | 3.00   |
| U.S.P., Insoluble                          | lb.        | 2.75   | 3.00   |
| Salicin, bulk                              | lb.        | 12.00  | 16.00  |
| Salol, U.S.P., bulk                        | lb.        | .85    | .95    |
| Santonin, cryst., U.S.P.                   | lb.        | 140.00 | 155.00 |
| Powdered                                   | lb.        | 140.00 | 155.00 |
| Soldiit, Mixture                           | bbls.      | —      | .39    |
| Silver Nitrate, 500 oz. lots.              | oz.        | .54    | .54½   |
| Nucleniate                                 | oz.        | .38    | .40    |
| Proteinate                                 | oz.        | —      | .40    |
| Colloidal                                  | oz.        | —      | 2.00   |
| Soap, Castle, white pure                   | lb.        | 22     | .35    |
| Powd., U.S.P., bbls.                       | lb.        | —      | .38    |
| Cont'd.                                    | lb.        | —      | .40    |
| Green, U.S.P.                              | lb.        | .15    | .16    |
| Sodium, Acetate, U.S.P., gran.             | lb.        | .25    | .29    |
| Benzoate, gran., U.S.P.                    | lb.        | .75    | .50    |
| Bicarb, U.S.P., powd., bbls.               | lb.        | .02½   | .02½   |
| Bromide, U.S.P., bulk                      | lb.        | .55    | .57    |
| Second Hands                               | lb.        | —      | .40    |
| Cacodylate                                 | lb.        | 8.00   | 9.00   |
| Caustic, U.S.P., See Sod. Hydroxide        |            |        |        |
| Chlorate, U.S.P., 8th Rev.                 | lb.        | .14    | .15    |
| Crystals, c.b.                             | 10.        | —      | .39    |
| Granular, c.b.                             | 10.        | —      | .39    |
| Citrate, U.S.P., Cryst.VIII lb.            | lb.        | —      | 1.00   |
| Granular, U.S.P., gran.IX lb.              | lb.        | —      | 1.15   |
| Cyanide 96-98, see Heavy Chemicals         |            |        |        |
| Glycerophosphate, crystals                 | lb.        | 2.15   | 2.20   |
| Hydroxide, U.S.P., 10-lb.                  | can        | —      | .22    |
| Hypophosphite, U.S.P.                      | lb.        | 1.00   | 1.05   |
| Acetic, See Heavy Chemicals                |            |        |        |
| Acetyl-salicylic                           | lb.        | .85    | .90    |
| Benzoic, from gum                          | lb.        | —      | —      |
| U.S.P. ex toluene                          | lb.        | .75    | .80    |
| Boric, cryst., bbls.                       | lb.        | .16½   | .17    |
| Powdered, bbls.                            | lb.        | .16½   | .17    |
| Butyric, Tech. 60 p.c.                     | lb.        | 1.45   | 1.55   |
| Carbolic cryst., U.S.P., drs.              | lb.        | .15    | .20    |
| 1-lb. bottle                               | lb.        | .27    | .31    |
| 5-lb. bottle                               | lb.        | .26    | .28    |
| 50 to 110-lb. tins.                        | lb.        | .23    | .25    |
| Liquid, U.S.P., 1 lb. bot.                 | lb.        | —      | .30    |
| Crude, 25 p.c.                             | gal.       | .32    | .35    |
| Chromic, U.S.P.                            | lb.        | 1.15   | 1.25   |
| Chrysophanic                               | lb.        | 2.75   | 3.00   |
| Citric, crystals, bbls.                    | lb.        | —      | .70    |
| Powdered                                   | lb.        | —      | .71    |
| Second Hands                               | lb.        | —      | .65    |
| Cresylic, 95-100 p.c., See Coal-tar Crudes |            |        |        |
| Formic, 75 p.c. tech.                      | lb.        | —      | .25    |
| Gallic, U.S.P., bulk                       | lb.        | 1.40   | 1.45   |
| Glycerophosphate, 25 p.c.                  | lb.        | —      | .25    |
| Hydrobromic, 40 p.c. pure                  | lb.        | .60    | .62    |
| Hydriodic, sp. g. 1.150                    | oz.        | —      | .19    |
| Hydrofluoric, see Heavy Chemicals          |            |        |        |
| Hydrophosphorous, 30 p.c.                  | lb.        | 2.40   | 2.50   |
| U.S.P., 10 p.c.                            | lb.        | .60    | .65    |
| Lactic, U.S.P.                             | VIII.      | —      | 1.99   |
| U.S.P., IX                                 | lb.        | —      | 2.20   |
| Molybdic, C.P.                             | lb.        | —      | 4.00   |
| Muriatic, see Heavy Chemicals              |            |        |        |
| Nitric, see Heavy Chemicals                |            |        |        |
| Nitro Muratic                              | lb.        | .20    | .22    |
| Oxalic, cryst., bbls.                      | lb.        | .32    | .33    |
| Picric, kegs, see Intermediates            |            |        |        |
| Phosphoric, 35-85p.c.syr.                  | U.S.P. lb. | .34    | .36    |
| 30 p.c. tech.                              | lb.        | .22    | .23½   |
| Pyrogallol, resublimed                     | lb.        | 2.35   | 2.40   |
| Crystals, bottles                          | lb.        | 1.95   | 2.00   |
| Salicylic Bulk, U.S.P.                     | lb.        | .30    | .45    |
| Sulfuric, C.P.                             | lb.        | —      | .07    |
| Sulfurous                                  | lb.        | .03    | .04    |
| Tannic, U.S.P.                             | lb.        | 1.40   | 1.45   |
| Tartaric Crystals, U.S.P.                  | lb.        | —      | .71    |
| Powdered, U.S.P.                           | lb.        | —      | .71    |
| Second Hands, Cryst.                       | lb.        | .60    | .62    |
| Powdered                                   | lb.        | .60    | .62    |
| Musk, pods, Cabardine                      | oz.        | 17.00  | 18.00  |
| Tonquin                                    | oz.        | 26.00  | 28.00  |
| Grain, Cab                                 | oz.        | 26.00  | 27.00  |
| Tonquin                                    | oz.        | 40.00  | 42.00  |
| Synthetic, See Aromatic Chemicals          |            |        |        |
| Nutgalls, Chlnese                          | lb.        | .38    | .40    |
| Nux Vomica, whole                          | lb.        | .14½   | .15    |
| Powdered                                   | lb.        | .22    | .24    |
| Poppy Heads                                | lb.        | —      | 1.23   |
| Quassia Chips                              | lb.        | —      | .10    |
| Sandalwood, Chips                          | lb.        | .55    | .60    |
| Ground                                     | lb.        | .62    | .65    |
| Scammony, resin                            | lb.        | 2.25   | 2.50   |
| Powdered                                   | lb.        | 2.50   | 2.60   |
| Spermaceti, blocks                         | lb.        | .30    | .31    |
| Storax, liquid, tech.                      | lb.        | —      | 1.25   |
| Gen., U.S.P.                               | lb.        | —      | 1.60   |
| Tamarinds, bbls.                           | lb.        | —      | .10    |
| Kegs                                       | per kg.    | 5.25   | 5.50   |
| Tar, Barbadoes                             | gal.       | 2.00   | 2.23   |
| Turpentine, Venice, True                   | lb.        | 2.75   | 3.00   |
| Artificial                                 | lb.        | .20    | .22    |
| Spirits, see Naval Stores.                 |            |        |        |
| BALSAMS                                    |            |        |        |
| Copaiba, Para                              | lb.        | .40    | .45    |
| South American                             | lb.        | .55    | .57½   |
| Fir, Canada                                | gal.       | —      | 14.00  |
| Oregon                                     | gal.       | 1.75   | 1.95   |
| Peru                                       | lb.        | 3.25   | 3.30   |
| Tolu                                       | lb.        | .75    | .80    |
| BARKS                                      |            |        |        |
| Angostura Bark, pressed                    | lb.        | —      | .40    |
| Basswood Bark, pressed                     | lb.        | .17    | .21    |
| Barberry                                   | lb.        | —      | .75    |
| Bayberry                                   | lb.        | .18    | .19    |
| Blackhawk, of Root, of Tree                | lb.        | .50    | .55    |
| Buckthorn                                  | lb.        | .30    | .35    |
| Cascara Sagrada                            | lb.        | .16    | .17    |
| Cascarilla, quills                         | lb.        | .48    | .50    |
| Siftings                                   | lb.        | .30    | .35    |
| Chestnut                                   | lb.        | .10    | .14    |
| Cinchona, red quills                       | lb.        | .50    | .60    |
| Broken                                     | lb.        | .45    | .50    |

## Grude Drugs

## MISCELLANEOUS

|                        |     |     |   |     |
|------------------------|-----|-----|---|-----|
| Agar. Agar, No. 1..... | lb. | .60 | — | .65 |
| No. 2 .....            | lb. | .55 | — | .58 |
| No. 3 .....            | lb. | .45 | — | .48 |

### \*Nominal

|                           |     |     |   |     |
|---------------------------|-----|-----|---|-----|
| "Yellow "quills"          | lb. |     |   |     |
| "Broken                   | lb. | .60 | — | \$5 |
| "Maracaibo, yellow, powd. | lb. | —   | — | —   |
| Condurango                | lb. | .11 | — | .12 |
| Cotton Root               | lb. | .75 | — | .80 |
| "Cramp (true)             | lb. | —   | — | —   |
| Cramp (so-called)         | lb. | .10 | — | .11 |
| Dogwood, Jamalca          | lb. | —   | — | .12 |
| "Nominal                  | lb. | —   | — | —   |

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Acetylparamidosalo  
 Amidopyrine  
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 Arecoline Hydrobromide  
 Hyoscine Hydrobromide  
 Oleoresin Malefern  
 Potassium Guaiacol Sulphonate  
 Quinine { Dicarbonate  
                   Ethylcarbonate  
 Rennet Powder  
     { Colloidale  
 Silver Salts { Nucleinate  
                   Proteinate  
 Sparteinsulphate  
 Sulfothiol  
 Sulphonemethane  
 Sulphonethylmethane

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Societe Chimique Des Usines Du Rhône  
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### Manufacturers of

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| <b>RHODOL</b><br>(Photographic Developer)          | <b>ANTIPYRINE U.S.P.</b>                       |
| <b>HYDROQUINONE</b>                                | <b>SACCHARINE U.S.P.</b>                       |
| <b>DIMETHYLSULPHATE</b>                            | <b>PYRAMIDON</b>                               |
| <b>CELLULOSE ACETATE</b>                           | <b>PIPERAZINE HYDRATE</b>                      |
| <b>RESORCINOL U.S.P.</b><br>(Powdered and Crystal) | <b>ETHYL CHLORIDE</b><br>(Tubes and Cylinders) |

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## Dalmatian Insect Flowers

## Salicylic Acid U. S. P.

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## Crude Drugs: Roots, Gums, Herbs, Flowers—Shellac

|                            |     | GUMS                      |   |                          |  |                 |
|----------------------------|-----|---------------------------|---|--------------------------|--|-----------------|
| Elm, grinding              | lb. | .40                       | — | .45                      | Aloes, Barbados                        | lb. — — 1.00    |
| Select bds.                | lb. | .80                       | — | .85                      | Cape                                   | lb. .11 — .12   |
| Hemlock                    | lb. | .07                       | — | .08                      | Curacao, cases                         | lb. .09½ — .10  |
| Lemon Peel                 | lb. | .10                       | — | .10½                     | Socotrine, whole                       | lb. .70 — .75   |
| Mexereon                   | lb. | .12                       | — | .14                      | *Ammoniac, tears                       | lb. — — 2.00    |
| Oak, red                   | lb. | .08                       | — | .09                      | Powdered                               | lb. —           |
| White                      | lb. | .03                       | — | .09                      | Arabic, firsts                         | lb. .30 — .33   |
| Orange Peel, bitter        | lb. | .13                       | — | .14                      | Seconds                                | lb. .28 — .30   |
| Sweet                      | lb. | .09                       | — | .10                      | Sorts Amber                            | lb. .14 — .14½  |
| Prickly Ash, Southern      | lb. | .24                       | — | .26                      | Powdered, U.S.P.                       | lb. .26 — .27   |
| Northern                   | lb. | .24                       | — | .26                      | Asafoetida, whole, U.S.P.              | lb. 3.25 — 3.30 |
| Pomegranate of Root        | lb. | .26                       | — | .28                      | Powdered                               | lb. — — 4.50    |
| of Fruit                   | lb. | .25                       | — | .28                      | Benzoin, Siam                          | lb. .80 — 1.00  |
| Sassafras, ordinary        | lb. | .25                       | — | .28                      | Sumatra                                | lb. .30 — .32   |
| Select                     | lb. | .38                       | — | .42                      | Camphor, ref. See fine chem. list      |                 |
| Simaruba                   | lb. | —                         | — | .35                      | Catechu                                | lb. .11 — .12   |
| Soap whole                 | lb. | —                         | — | .15                      | Chicle                                 | lb. .80 — .85   |
| Cut                        | lb. | .25                       | — | .26                      | Damar                                  | lb. .38 — .40   |
| Crushed                    | lb. | —                         | — | Euphorbium               | lb. — — 22                             |                 |
| Wahoo of Root              | lb. | .85                       | — | .90                      | Powdered                               | lb. — — 50      |
| of Tree                    | lb. | .40                       | — | .42                      | Galbanum                               | lb. — — 1.50    |
| Willow, Black              | lb. | .06                       | — | .07                      | Gambler                                | lb. .08½ — .09  |
| White                      | lb. | .16                       | — | .17                      | Gamboge                                | lb. 1.40 — 1.60 |
| White Pine Rosed           | lb. | .08                       | — | .09                      | Guaiac                                 | lb. .65 — .70   |
| White Poplar               | lb. | .07                       | — | .08                      | Hemlock                                | lb. .83 — .90   |
| Wild Cherry—               |     |                           |   | Kino                     | lb. — — .50                            |                 |
| Thin Green Rosed           | lb. | .19                       | — | .20                      | Mastic                                 | lb. .65 — .70   |
| Thick Rosed                | lb. | .12                       | — | .13                      | Myrrh, Select                          | lb. .75 — .80   |
| Thin Natural               | lb. | .09                       | — | .10                      | Sorts                                  | lb. .68 — .70   |
| Thick Natural              | lb. | .07                       | — | .08                      | Olibanum, siftings                     | lb. .15 — .16   |
| Witch Hazel                | lb. | .08                       | — | .09                      | Tears                                  | lb. .17 — .30   |
|                            |     | BEANS                     |   |                          | Opium, See fine chem. list             |                 |
| Calabar                    | lb. | .28                       | — | .30                      | Sandarac                               | lb. .65 — .70   |
| Cassia Fistula             | lb. | .18                       | — | .20                      | Senegal, picked                        | lb. .33 — .34   |
| Caster                     | lb. | —                         | — | Sorts                    | lb. .16 — .17                          |                 |
| St. Ignatius               | lb. | .38                       | — | .40                      | Spruce                                 | lb. — — 1.00    |
| St. John's Bread           | lb. | .06                       | — | .07                      | Storax, Tech. cases, See Mastic. Drugs |                 |
| Tonka, Angostura           | lb. | —                         | — | Thus                     | lb. — — .20                            |                 |
| Para                       | lb. | —                         | — | Tragacanth, Aleppo first | lb. 4.50 — 4.55                        |                 |
| Surinam                    | lb. | 1.00                      | — | Seconds                  | lb. 3.25 — 3.50                        |                 |
| Vanilla, Mexican, whole    | lb. | 4.50                      | — | Thirds                   | lb. 2.00 — 2.50                        |                 |
| Cuts                       | lb. | 3.50                      | — |                          |  |                 |
| Bourbon                    | lb. | 3.00                      | — |                          |  |                 |
| South American             | lb. | 3.25                      | — |                          |  |                 |
| Tahiti, Yellow Label       | lb. | 1.75                      | — |                          |  |                 |
| Green Label                | lb. | 1.75                      | — |                          |  |                 |
|                            |     | BERRIES                   |   |                          | SHELLAC                                |                 |
| Cubeb, ordinary            | lb. | —                         | — | D. C.                    | lb. — — —                              |                 |
| XX                         | lb. | —                         | — | Diamond "I"              | lb. — — —                              |                 |
| Powdered                   | lb. | —                         | — | Fine Orange              | lb. 1.20 — 1.25                        |                 |
| Fish                       | lb. | .22                       | — | Second Orange            | lb. 1.05 — 1.10                        |                 |
| Horse, Nettle, dry         | lb. | .45                       | — | T. N.                    | lb. .90 — .92½                         |                 |
| Juniper                    | lb. | .04                       | — | Button                   | lb. — — 1.25                           |                 |
| Laurel                     | lb. | .18                       | — | Regular bleached         | lb. .90 — .95                          |                 |
| Poke                       | lb. | —                         | — | Bone, dry                | lb. 1.05 — 1.10                        |                 |
| Prickly Ash                | lb. | .12                       | — |                          |  |                 |
| Saw Palmetto               | lb. | .23                       | — |                          |  |                 |
| Sloe                       | lb. | .20                       | — |                          |  |                 |
|                            |     | FLOWERS                   |   |                          | LEAVES AND HERBS                       |                 |
| Arnica                     | lb. | .22                       | — | Aconite                  | lb. — — .55                            |                 |
| Borage                     | lb. | .45                       | — | Balmony                  | lb. .15 — .17                          |                 |
| Calendula Petals           | lb. | 1.80                      | — | Bay, true                | lb. — — —                              |                 |
| Chamomile German           | lb. | .40                       | — | Belladonna               | lb. — — .30                            |                 |
| Hungarian true             | lb. | .37                       | — | Boneset, leaves and tops | lb. .13 — .14                          |                 |
| Hungarian style            | lb. | .35                       | — | Buchu, short             | lb. 3.30 — 3.50                        |                 |
| Roman                      | lb. | .16                       | — | Long                     | lb. — — 3.25                           |                 |
| Clover Tops                | lb. | .11                       | — | Cannabis, true, imported | lb. — — —                              |                 |
| Dogwood                    | lb. | .17                       | — | American                 | lb. — — .20                            |                 |
| Elder                      | lb. | .68                       | — | U.S.P.                   | lb. — — .35                            |                 |
| Insect, open whole         | lb. | —                         | — | Catnip                   | lb. .12 — .13                          |                 |
| Closed whole               | lb. | .80                       | — | Chestnut                 | lb. .06 — .07                          |                 |
| Powder                     |     |                           |   | Chiretta                 | lb. .25 — .26                          |                 |
| Flowers and stems, 50 p.c. | lb. | —                         | — | *Coca, Huancu            | lb. — — —                              |                 |
| 100 p.c. Pure              | lb. | —                         | — | Truxillo                 | lb. .60 — .70                          |                 |
| Closed Flowers             | lb. | 1.05                      | — | Coltsfoot                | lb. .12 — .13                          |                 |
| *Kousa                     | lb. | —                         | — | Conium                   | lb. .29 — .31                          |                 |
| Lavender                   | lb. | .25                       | — | Corn Silk                | lb. .11 — .12                          |                 |
| Linden, with leaves        | lb. | .28                       | — | Damiana                  | lb. .15 — .16                          |                 |
| Without Leaves             | lb. | .45                       | — | Deer Tongue              | lb. .09 — .10                          |                 |
| Malva, blue                | lb. | 1.00                      | — | Digitalis                | lb. .21 — .22                          |                 |
| *Black                     | lb. | .50                       | — | Eucalyptus               | lb. .11 — .12                          |                 |
| Mullein                    | lb. | 1.30                      | — | Euphorbia Pilulifera     | lb. .13 — .14                          |                 |
| Orange                     | lb. | 1.25                      | — | Grindelia Robusta        | lb. .11 — .12                          |                 |
| Poppy, red                 | lb. | .95                       | — | Herbana, German          | lb. — — —                              |                 |
| Rosemary                   | lb. | .60                       | — | Russian                  | lb. .32 — .35                          |                 |
| Saffron, American          | lb. | .75                       | — | Henna                    | lb. .30 — .40                          |                 |
| Valencia                   | lb. | —                         | — | Horehound                | lb. .13 — .14                          |                 |
| Tilia (see Linden)         | lb. | —                         | — | Jaborandi                | lb. .38 — .40                          |                 |
|                            |     | *Nominal                  |   |                          | Laurel                                 | lb. .04½ — .05½ |
|                            |     | Nominal                   |   |                          | Life Everlasting                       | lb. .06 — .10   |
|                            |     | Nominal                   |   |                          | Liverwort                              | lb. — — .30     |
|                            |     | Nominal                   |   |                          | Lobelia                                | lb. .75 — .80   |
|                            |     | Nominal                   |   |                          | Maca                                   | lb. — — —       |
|                            |     | Nominal                   |   |                          | Marjoram, German                       | lb. .27 — .28   |
|                            |     | Nominal                   |   |                          | French                                 | lb. .19 — .20   |
|                            |     | Nominal                   |   |                          | Jalap, whole                           | lb. .40 — .55   |
|                            |     | Nominal                   |   |                          |  |                 |
|                            |     | Nominal                   |   |                          |  |                 |
|                            |     | Nominal                   |   |                          |  |                 |
|                            |     | GUMS                      |   |                          | ROOTS                                  |                 |
|                            |     | Aloes, Barbados           |   |                          | Aconite, U.S.P.                        |                 |
|                            |     | Cape                      |   |                          | .45 — .50                              |                 |
|                            |     | Curacao, cases            |   |                          | Aletris (Unicorn true)                 |                 |
|                            |     | Socotrine, whole          |   |                          | .85 — .90                              |                 |
|                            |     | *Ammoniac, tears          |   |                          | Alkanet                                |                 |
|                            |     | Powdered                  |   |                          | .40 — .45                              |                 |
|                            |     | Arabic, firsts            |   |                          | Althea, cut                            |                 |
|                            |     | Seconds                   |   |                          | .38 — .40                              |                 |
|                            |     | Sorts                     |   |                          | Whole                                  |                 |
|                            |     | Sorts Amber               |   |                          | .25 — .28                              |                 |
|                            |     | Powdered, U.S.P.          |   |                          | Angelica American                      |                 |
|                            |     | Asafoetida, whole, U.S.P. |   |                          | .26 — .28                              |                 |
|                            |     | Powdered                  |   |                          | Arnica                                 |                 |
|                            |     | Balsam, Dalmatian         |   |                          | .80 — .85                              |                 |
|                            |     | Greek                     |   |                          | Arrowroot, American                    |                 |
|                            |     | Spanish                   |   |                          | .07 — .08                              |                 |
|                            |     | Savory                    |   |                          | Bermuda                                |                 |
|                            |     | Senna, Alexandria, whole  |   |                          | .10 — .12                              |                 |
|                            |     | Half Leaf                 |   |                          | St. Vincent                            |                 |
|                            |     | Siftings                  |   |                          | .06 — .09                              |                 |
|                            |     | Powdered                  |   |                          | Bamboo Brier                           |                 |
|                            |     | Tinnevelly                |   |                          | .10 — .12                              |                 |
|                            |     | Pods                      |   |                          | Bearfoot                               |                 |
|                            |     | Squaw Vine                |   |                          | .06 — .09                              |                 |
|                            |     | Stramonium                |   |                          | Belladonna                             |                 |
|                            |     | Tansy                     |   |                          | .32 — .38                              |                 |
|                            |     | Thyme, Spanish            |   |                          | Berberis                               |                 |
|                            |     | French                    |   |                          | .25 — .26                              |                 |
|                            |     | Uva Ursi                  |   |                          | Blood                                  |                 |
|                            |     | Witch Hazel               |   |                          | .25 — .26                              |                 |
|                            |     | Wormwood, Imported        |   |                          | Blueflag                               |                 |
|                            |     | Yerba Santa               |   |                          | .65 — .75                              |                 |

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## Essential Oils, Aromatic Chemicals, Waxes and Seeds

|                             |          | SEEDS |                      | OLEORESINS                             |      |      |       |
|-----------------------------|----------|-------|----------------------|--|------|------|-------|
| Kava Kava                   | lb.      | .21   | .22                  | Sabadilla                              | lb.  | .16  | .17   |
| Lady Slipper                | lb.      | —     | 1.20                 | Stramonium                             | lb.  | .25  | .26   |
| Licorice, "Russian" cut.    | lb.      | —     | —                    | Strophanthus, Hispidus                 | lb.  | —    | —     |
| Spanish natural bales.      | lb.      | .12   | .13                  | Kombe                                  | lb.  | .90  | .95   |
| Selected                    | lb.      | .30   | .32                  | Sunflower, domestic                    | lb.  | .08½ | .08   |
| Powdered                    | lb.      | .18   | .19                  | South American                         | lb.  | .07  | .07½  |
| Lovage, American            | lb.      | .65   | .70                  | Worm, American                         | lb.  | .25  | .26   |
| Manaca                      | lb.      | .18   | .20                  | Levant                                 | lb.  | —    | 1.40  |
| Mandrake                    | lb.      | .15   | .16                  | <b>SPICES</b>                          |      |      |       |
| Musk, Russian               | lb.      | 1.60  | 1.65                 | Capsicum, African pods                 | lb.  | .18  | .19   |
| Orie, Florentine bold       | lb.      | .14   | .15                  | Bombay                                 | lb.  | .19  | .20   |
| Verona                      | lb.      | .11   | .12                  | Japan                                  | lb.  | 24½  | .25   |
| Pereira Brava               | lb.      | .25   | .28                  | Cassia Buds                            | lb.  | —    | —     |
| Pellitory                   | lb.      | .29   | .31                  | China, Selected, mats.                 | lb.  | .10  | .11   |
| Pink true                   | lb.      | 1.75  | 2.00                 | Saigon, assortment                     | lb.  | .24  | .27   |
| Pleurisy                    | lb.      | —     | .30                  | Chilles, Japan                         | lb.  | .30  | .31   |
| Poke                        | lb.      | .15   | .16                  | Mombasa                                | lb.  | .28  | .28½  |
| Rhatany                     | lb.      | .10   | .11                  | Cinnamon, Ceylon                       | lb.  | .31  | .33   |
| Rhubarb                     |          |       |                      | Cloves, Zanzibar                       | lb.  | .33  | .34   |
| High Dried                  | lb.      | .70   | .75                  | Amboynas                               | lb.  | .38  | .40   |
| Powdered                    | lb.      | .80   | .85                  | Penang                                 | lb.  | .45  | .48   |
| Sarsaparilla, Honduras      | lb.      | .75   | .80                  | Ginger, African                        | lb.  | —    | .11   |
| American                    | lb.      | .35   | .40                  | Jamaica, grinding                      | lb.  | .31  | .33   |
| Mexican                     | lb.      | .36   | .38                  | Japan                                  | lb.  | 10½  | .11   |
| Scammony Root               | lb.      | .06   | .07                  | Mace, Slawu                            | lb.  | .34  | .35   |
| Senegomy, Northern          | lb.      | 1.10  | 1.20                 | Banda, No. 1.                          | lb.  | .38  | .40   |
| Southern                    | lb.      | —     | —                    | Batavia                                | lb.  | .27  | .28   |
| Serpentaria                 | lb.      | —     | 1.10                 | Nutmegs, 110s                          | lb.  | .19  | .20   |
| Skunk Cabbage               | lb.      | .20   | .23                  | 75a-80s                                | lb.  | .20  | .21   |
| Snake, Canada natural       | lb.      | .45   | .50                  | Pepper, Black Sing.                    | lb.  | 11½  | .12   |
| Stripped                    | lb.      | .75   | .78                  | White                                  | lb.  | 21½  | .22   |
| Spikenard                   | lb.      | .25   | .27                  | Pimento, Select                        | lb.  | .07  | .07½  |
| Squill, white               | lb.      | .09   | .10                  | <b>WAXES</b>                           |      |      |       |
| Stillington                 | lb.      | .16   | .17                  | Bayberry                               | lb.  | .36  | .37   |
| Stone                       | lb.      | .12   | .14                  | Bees, white                            | lb.  | .64  | .65   |
| Turmeric Madras             | lb.      | .08   | .08½                 | Refined, light, African                | lb.  | .34  | .35   |
| Aleppy                      | lb.      | .09   | .09½                 | Dark                                   | lb.  | .33  | .34   |
| China                       | lb.      | .07   | .07½                 | Crude, light                           | lb.  | .26  | .27   |
| Unicorn false, See Helonias |          |       | Dark                 | lb.                                    | .25  | .26  |       |
| True, See Aletris           |          |       | Candellina           | lb.                                    | .33  | .34  |       |
| Valerian, Belgian           | lb.      | .18   | .20                  | Carnauba, Fior.                        | lb.  | .85  | .95   |
| *English                    |          |       | No. 1, North Country | lb.                                    | .80  | .90  |       |
| *Japanese                   |          |       | No. 2, North Country | lb.                                    | .60  | .62  |       |
| Yellow Dock                 |          |       | No. 3, Fatty Gray.   | lb.                                    | .31  | .32  |       |
| *Yellow Parilla             | lb.      | —     | —                    | No. 3, Chalky                          | lb.  | .32  | .33   |
| ANISE, LEVANT               | lb.      | —     | —                    | Ceresin Yellow                         | lb.  | .13  | .14   |
| Star                        | lb.      | .28   | .28½                 | White                                  | lb.  | .15  | .17   |
| Spanish                     | lb.      | .17   | .17½                 | Japan                                  | lb.  | 17½  | .18   |
| Anatto                      | lb.      | .04½  | .05½                 | Montan, crude                          | lb.  | .35  | .36   |
| Canary, *Spanish            | lb.      | —     | —                    | Bleached                               | lb.  | —    | —     |
| Morocco                     | lb.      | .05½  | .06                  | Ozokerite, crude, brown                | lb.  | .35  | .36   |
| South American              | lb.      | .05   | .05½                 | "Green"                                | lb.  | —    | —     |
| Caraway, African            | lb.      | .09½  | .10                  | *Refined, white                        | lb.  | —    | —     |
| Dutch                       | lb.      | .07   | .07½                 | *Domestic                              | lb.  | —    | —     |
| Domestic                    | lb.      | —     | —                    | Refined, yellow                        | lb.  | —    | —     |
| Cardamom, bleached          | lb.      | 1.15  | 1.40                 | Paraffin, refd 128-130 deg.m.p.        | lb.  | —    | .12½  |
| Celery                      | lb.      | .17   | .18                  | Ref'd, 118-120 deg.                    | lb.  | —    | .10%  |
| Colchicum                   | lb.      | —     | 1.10                 | Stearic Acid, See Animal Oils          |      |      |       |
| Conium                      | lb.      | .35   | .40                  | <b>Essential Oils</b>                  |      |      |       |
| Coriander, Bombay           | lb.      | —     | —                    | Almond, Bitter, U.S.P.                 | lb.  | 8.50 | 9.00  |
| Morocco, Unbleached         | lb.      | .03   | .03½                 | Bitter, f.f. P. A.                     | lb.  | 9.00 | 10.00 |
| Bleached                    | lb.      | .07   | .07½                 | Artificial, U.S.P. See Aromatic Chems. |      |      |       |
| Cumin, Levant               | lb.      | —     | —                    | Sweet                                  | lb.  | .65  | .70   |
| Morocco                     | lb.      | .07½  | .08                  | Peach Kernel (Apricot)                 | lb.  | .40  | .45   |
| DILL                        | lb.      | .06   | .07                  | Amber, Crude                           | lb.  | 1.35 | 1.40  |
| Fennel, French              | lb.      | .10½  | .11                  | Rectified                              | lb.  | 1.70 | 1.75  |
| German                      | lb.      | —     | —                    | Anise, Technical                       | lb.  | .90  | .95   |
| Bombay                      | lb.      | .11   | .11½                 | U.S.P.                                 | lb.  | —    | 1.00  |
| Flax, whole                 | per bbl. | 20.00 | 22.00                | Bay                                    | lb.  | 4.00 | 4.50  |
| Ground                      | lb.      | .11   | .12                  | Bergamot                               | lb.  | 7.00 | 8.00  |
| Foenugreek                  | lb.      | .02   | .02½                 | Artificial                             | lb.  | 3.75 | 4.00  |
| Hemp, Manchurian            | lb.      | .05½  | .06                  | Birch Tar, Rect.                       | lb.  | 2.75 | 3.00  |
| Chilian                     | lb.      | —     | —                    | Crude                                  | lb.  | 1.25 | 1.30  |
| Job's Tears, white          | lb.      | .06   | .06½                 | *Bois de Rose                          | lb.  | —    | 11.50 |
| Larkspur                    | lb.      | .23   | .25                  | Cade                                   | lb.  | .90  | 1.00  |
| Lobelia                     | lb.      | —     | —                    | Cajuput, Native                        | lb.  | .75  | .80   |
| Mustard, Bari, Brown        | lb.      | .15   | .16                  | U.S.P.                                 | lb.  | .95  | 1.00  |
| Bombay, Brown               | lb.      | .12½  | .13                  | Camphor, Sassafrassy                   | lb.  | .12  | .13   |
| California Brown            | lb.      | .08½  | .09                  | Japanese, white                        | lb.  | .50  | .55   |
| Chinese, Yellow             | lb.      | .07½  | .08                  | Caraway, Rectified                     | lb.  | 2.75 | 3.00  |
| English, Yellow             | lb.      | .11   | .11½                 | Cassia, Technical                      | lb.  | 1.50 | 1.55  |
| Danish, Yellow              | lb.      | .08½  | .09                  | Lead, Free                             | lb.  | 1.60 | 1.65  |
| Dutch, Yellow               | lb.      | .08½  | .09                  | Redistilled, U.S.P.                    | lb.  | 2.00 | 2.10  |
| Parsley                     | lb.      | .15   | .16                  | Cedar, Leaf                            | lb.  | 1.50 | 1.60  |
| Poppy, Dutch                | lb.      | .15½  | .16                  | Cedar Wood, light                      | lb.  | .65  | .70   |
| Turkish                     | lb.      | .14½  | .15                  | Cinnamon, Ceylon, heavy                | lb.  | —    | 26.00 |
| Blue, Russian               | lb.      | —     | —                    | Leaf                                   | lb.  | 2.50 | 2.75  |
| Indian                      | lb.      | .13   | .13½                 | Clitoria, Ceylon                       | lb.  | .85  | .60   |
| White Indian                | lb.      | .19   | .20½                 | Java                                   | lb.  | 1.25 | 1.30  |
| Quince                      | lb.      | 1.00  | 1.10                 | <b>OLEORESINS</b>                      |      |      |       |
| Rape, South Amer.           | lb.      | .06½  | .07                  | Capsicum                               | lb.  | —    | —     |
| Japanese small              | lb.      | .07½  | .08½                 | Aspidium (Malefern)                    | lb.  | 4.75 | 5.00  |
| Domestic                    | lb.      | .08½  | .09                  | Cubeb                                  | lb.  | 7.75 | 8.00  |
| *Nominal                    |          |       | Ginger               | lb.                                    | 3.40 | 3.50 |       |

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AND

## Aromatic Chemicals

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Importers  
Exporters

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## Benzyl Benzoate

(Van Dyk &amp; Co.)

THE STANDARD MEDICINAL BRAND

(Free from Chlorin and Phosphorus)

Accepted by the Council of Pharmacy and  
Chemistry. (See Jour. Am. Med. Assoc.,  
Dec. 27th, 1919, page 1939.)

## VAN DYK & COMPANY

Inc. 1904

4 Platt St., New York City

## Heavy Chemicals—Metals

|                             |           |         |                              |                    |                           |                    |
|-----------------------------|-----------|---------|------------------------------|--------------------|---------------------------|--------------------|
| Benzyl Benzoate             | lb. 3.75  | — 4.25  | Ammonia Carbonate            | lb. 14½—15         | Potassium Bichromate      | lb. .31—.32        |
| Imported                    | lb. —     | — 6.50  | Ammonia Water, 26 deg.       | lb. .09—.11        | Carbonate, 80-85 p.c.     | lb. .19—.20        |
| Benzyl Chloride, pure       | lb. —     | .50     | 20 deg.                      | lb. .07½—.09½      | Hydrated                  | lb. .26—.27        |
| Borneol                     | lb. —     | — 3.30  | 18 deg.                      | lb. .07—.09        | 85-90 p.c.                | lb. .23—.25        |
| Bromostyrol                 | lb. 8.50  | — 9.00  | 16 deg.                      | lb. .06½—.08½      | 90-95 p.c.                | lb. —              |
| Cinnamic Acid               | lb. 5.00  | — 5.50  | Ammonium chloride, U.S.P.    | lb. .25—.26        | Chlorate, cryst.          | lb. .18—.18½       |
| Cinnamic Alcohol            | lb. 20.00 | — 40.00 | Nitrate                      | lb. —              | *Japanese                 | lb. —              |
| Cinnamic Aldehyde           | lb. —     | .5—.50  | Sal Ammoniac, gray           | lb. .12—.12½       | Powdered, American        | lb. .18—.18½       |
| Citral                      | lb. 7.50  | — 8.00  | Granulated, white            | lb. .12½—.13       | Muriate, basls 80 p.c.    | lb. .20—.20        |
| Citronellol                 | lb. —     | — 16.00 | Lump                         | lb. .22½—.24       | Low grade                 | lb. .150—.175      |
| Imported                    | lb. 24.00 | — 30.00 | Sulfate, dbl. bags           | lb. 5.10—5.15      | Metabsulfite              | lb. .41—.42        |
| Coumarin                    | lb. 6.00  | — 6.50  | Dom.                         | 100 lbs. 4.85—4.90 | Permanganate, Com'l       | lb. .60—.65        |
| Ethyl Benzoate              | lb. —     | — 2.00  | Antimony chloride, liq.      | lb. .18—.20        | U.S.P. See Fine Chemicals | —                  |
| Ethyl Cinnamate             | lb. 7.50  | — 8.00  | Anhydrous                    | lb. .50—.55        | Prussiate, red            | lb. .60—.63        |
| Eucalyptol                  | lb. 1.10  | — 1.15  | Oxide                        | lb. .08—.08½       | Yellow                    | lb. .37—.38½       |
| Eugenol                     | lb. 6.00  | — 6.50  | Sulfide, Crimson             | lb. —              | Sulfate, crude            | unit 4.60—6.00     |
| Geraniol, Standard          | lb. 3.50  | — 4.00  | Golden No. 1                 | lb. —              | *Salt Cake                | ton 50.00—60.00    |
| Geranyl Acetate             | lb. 7.00  | — 8.00  | No. 2                        | lb. —              | Saltpetre                 | lb. 11½—13½        |
| Heptenol                    | lb. 5.00  | — 5.50  | Vermillion                   | lb. —              | Soda Ash, 58 p.c. light   | 100 lbs. 2.50—2.65 |
| Indol                       | oz. 20.00 | — 26.00 | Arsenic, white               | lb. .14—.15        | Export Ass'n              | 100 lbs. —         |
| Isobutanol                  | lb. 9.50  | — 10.00 | Red                          | lb. .16—.17        | Dense, 58 p.c. bags       | 100 lbs. —         |
| Imported                    | lb. 15.00 | — 16.00 | Barium, chloride             | ton 120.00—130.00  | Export Ass'n              | 100 lbs. —         |
| Linanol                     | lb. 10.00 | — 12.00 | Imported                     | ton 110.00         | Caustic, 76 p.c.          | ton 4.25—4.35      |
| Linanyl Acetate             | lb. 16.00 | — 18.00 | Binoxide                     | lb. .25—27½        | *F. A. S., Expt. Ass'n    | 100 lbs. —         |
| Linanyl Benzoate            | lb. —     | — 18.00 | Carbonate works              | ton 97.50—100.00   | Ground, 76 p.c.           | 100 lbs. 5.00—5.50 |
| Menthol                     | lb. 5.65  | — 5.75  | Nitrate                      | lb. .14—.15        | Flake, works              | 100 lbs. 5.50—5.75 |
| Methyl Anthranilate         | lb. 9.75  | — 10.00 | Barytes, floated, white      | ton 29.50—30.00    | Sodium Acetate            | lb. .12—.12½       |
| Methyl Cinnamate            | lb. 10.00 | — 12.00 | Off color                    | ton 18.00—20.00    | Bichromate                | lb. .10½—.11       |
| Methyl Paracresol           | lb. 14.50 | — 16.00 | Blanc Fixe, dry              | ton 110.00—115.00  | Bicarbonate               | 100 lbs. 2.75—3.00 |
| Methyl Salicylate           | lb. .70   | — .75   | *Bleaching Pd. f.o.b. wks    | 100 lbs. 6.75—7.00 | Bisulfite, Powd.          | lb. .07—.08        |
| Mirbane, rect., drums extra | lb. .16   | — 16½   | Export, F.A.S.               | 100 lbs. 7.25—7.50 | *Bisulfate, bulk          | ton 7.00—7.50      |
| Musk Ambrette               | lb. 20.00 | — 20.00 | Bromine, Purified wks        | lb. —              | Carbonate Sal. bbls.      | 100 lbs. 2.00—2.25 |
| Musk Ketone                 | lb. —     | — 45.00 | Calcium Acetate              | lb. 3.50—3.55      | Chlorate                  | lb. .10—.11        |
| Musk Xylene                 | lb. 11.00 | — 11.50 | Carbide                      | lb. .05—.05½       | *Cyanide 96.9%            | lb. .27—.29        |
| Phenylacetaldehyde          | lb. 40.00 | — 45.00 | Carbonate                    | lb. .01½—.02½      | Second Hands              | lb. .29—.30        |
| Phenylactic Acid            | lb. 5.00  | — 5.50  | Light                        | lb. .03½—.04½      | 73-76 p.c.                | lb. .20—.22        |
| Phénylethylalcohol          | lb. 22.00 | — 25.00 | Heavy                        | lb. .03—.04        | Fluoride                  | lb. .23—.25        |
| Rhodinol                    | lb. 24.00 | — 26.00 | Chloride, solid, f.o.b. N.Y. | ton .33—.37        | Hydrosulfite              | lb. .120—.125      |
| Safrol                      | lb. .80   | — .90   | Granulated, f.o.b. N.Y.      | ton .41—.47        | Hyposulfite, Crys. bbls.  | 100 lbs. 3.75—4.25 |
| Terpineol, C. P.            | lb. 1.15  | — 1.25  | Flaked, f.o.b. N.Y.          | ton .41—.47        | Granulated                | 100 lbs. 4.00—4.75 |
| Thymol                      | lb. 11.00 | — 11.50 | Anhydrous                    | lb. .14—.15        | Kegs                      | 100 lbs. 4.25—5.00 |
| Vanillin                    | oz. .80   | — .85   | Chlorine, liquid             | lb. .09—.16        | Nitrate, crude            | 100 lbs. 3.00—3.05 |
| Violet, artificial (Ionone) | lb. —     | — 15.00 | Carbon black                 | lb. .08—.11        | Double refined            | lb. .055—.074      |

## Heavy Chemicals

|                  |                              |                           |                                  |                    |              |
|------------------|------------------------------|---------------------------|----------------------------------|--------------------|--------------|
| ACIDS            | Acetic, 28 p.c., bbls        | 100 lbs. 8.75             | — 4.50                           |                    |              |
|                  | 56 p.c., bbls                | 100 lbs. 7.50             | — 9.00                           |                    |              |
|                  | 80 p.c., bbls, Com'l         | 100 lbs. 10.70            | — 12.20                          |                    |              |
|                  | 80 p.c., bbls, pure          | 100 lbs. 13.01            | — 13.76                          |                    |              |
|                  | Second Hands                 | 100 lbs.                  | — 11.00                          |                    |              |
|                  | Glacial, bbls. & cbs         | 100 lbs. 15.95            | — 16.70                          |                    |              |
|                  | Second Hands                 | 100 lbs. 11.50            | — 12.50                          |                    |              |
|                  | Hydrobromic com.             | 40 p.c.                   | lb. .45—.47                      |                    |              |
|                  | Pure, 40 p.c.                | lb. .60—.62               | Flake White                      | lb. .16½—.17½      |              |
|                  | Hydrobromic 36 p.c. bbls.    | lb. .09—.10               | Fluorspar, Powdered              | ton 30.00—35.00    |              |
|                  | 18 p.c. in carboys.          | lb. .14—.15               | Acid Grade                       | ton —              |              |
|                  | 5½ p.c. in carboys.          | lb. .15—.16               | Fuller's Earth f.o.b. mines      | ton 16.00—17.00    |              |
|                  | Lactic, 22 p.c.              | lb. .04½—.05              | Fusel Oil, crude                 | gal. 4.00—4.16     |              |
|                  | 50 per cent pure             | lb. —                     | Refined                          | gal. 4.25—4.50     |              |
|                  | Technical                    | lb. —                     | Lead Acetate, white cryst.       | lb. .16—.17        |              |
|                  | 80 p.c. tech.                | lb. —                     | Imported                         | lb. .12—.13        |              |
|                  | Mixed, Nitric                | unit .11                  | White Cakes                      | lb. .14—.15½       |              |
|                  | Sulfuric                     | unit .01½—.01½            | Broken Cakes                     | lb. .15—.16        |              |
| Muratic, 18 deg. | cbs                          | 100 lbs. 1.75             | Granulated                       | lb. .15—.16        |              |
|                  | 20 deg. carboys              | 100 lbs. 2.00             | Arsenate, powdered               | lb. .22—.25        |              |
|                  | 22 deg. carboys              | 100 lbs. 2.28             | Paste                            | lb. .11—.13        |              |
|                  | Pure cbs, 18 deg.            | 100 lbs. 2.50             | Nitrate                          | lb. —              |              |
|                  | 20 deg.                      | 100 lbs. 2.75             | Oxide, Látharge, Amer. pd. bbls. | lb. .114—.152      |              |
|                  | 22 deg.                      | 100 lbs. 3.00             | Red, American                    | lb. .124—.132      |              |
|                  | 36 deg. carboys              | lb. .06—.06½              | Sulfate, basic                   | lb. .10—.10½       |              |
|                  | 38 deg. carboys              | lb. .06—.07½              | White, Basic Carb., Amer. dry    | lb. .10½—.15½      |              |
|                  | 40 deg. carboys              | lb. .07—.08               | in Oil, 100 lbs. or over         | lb. .15—.17        |              |
|                  | 42 deg. carboys              | lb. .07—.08½              | Lithopone                        | lb. .08½—.08½      |              |
|                  | Phosphoric, 50 p.c. tech.    | lb. .21½—.25½             | Lime, hydrate                    | lb. .03—.03½       |              |
|                  | Pyrolygneous, Tech.          | gal. .12—.12½             | Acetate                          | 100 lbs. 3.50—3.55 |              |
|                  | Sulfuric, Tank carlots       | 60 deg. f.o.b. wks.       | Sulfur solution                  | gal. .17—.22       |              |
|                  |                              | ton 11.00—16.00           | Magnesite                        | ton 65.00—68.00    |              |
|                  |                              | 20 deg. f.o.b. wks.       | f.o.b. N. Y.                     | ton .03½—.04       |              |
|                  |                              | ton 21.00—23.00           | Magnesium Sulfate, tech.         | 100 lbs. 3.00—3.75 |              |
|                  |                              | 20 p.c. Oleum, f.o.b. wks | Chloride, fused, works           | ton .48—.48        |              |
|                  |                              | ton 23.00—25.00           | Manganese Chloride               | lb. .20—.21        |              |
|                  |                              | Tannic, Tech.             | Sulfate                          | lb. .20—.22        |              |
|                  |                              | lb. .65—.80               | Nickel oxide                     | lb. .40—.45        |              |
| Acetone          | lb. .21                      | — 22                      | Salts, single                    | lb. .12—.13½       |              |
|                  | Acetic Anhydride, 85 p.c.    | lb. —                     | double                           | lb. .12—.12½       |              |
|                  | Acetyl Chloride, Redistilled | lb. .45—.50               | *Nitre Cake, bulk                | ton 7.00—7.50      |              |
|                  | Alum, ammonia, lump          | lb. .03½—.05              | Orange Mineral                   | lb. .15½—.16½      |              |
|                  | Ground                       | lb. .05—.05½              | Paris Green                      | lb. .32—.33        |              |
|                  | Powdered                     | lb. .03½—.06              | Phosphorus red                   | lb. —              |              |
|                  | Chrome                       | lb. .15—.16               | Yellow                           | lb. —              |              |
|                  | Potash, lump                 | lb. .06—.07½              | Oxychloride                      | lb. .66—.68        |              |
|                  | Powdered                     | lb. .08—.08½              | Sequaulfide                      | lb. .42½—.45       |              |
|                  | *Ground                      | lb. .09—.09½              | Plaster of Paris                 | lb. 1.50—1.60      |              |
|                  | Soda, Ground                 | 100 lbs. —                | True Dental                      | lb. 1.75—2.00      |              |
|                  | *Aluminum chloride, carboys  | lb. —                     | Second Hands                     | lb. .23—.25        |              |
|                  | Anhydrous                    | lb. —                     | 70-75%                           | Imported, 28 p.c.  | lb. .27—.28½ |
|                  | Sulfate Iron free            | 100 lbs. 4.50—5.00        | Sticks, U.S.P.                   | lb. .85—.93        |              |
|                  | Commercial                   | 100 lbs. 2.75—3.25        | Sticks                           | —                  |              |
|                  | Aluminum hydrate light       | lb. .22—.25               | Electrolytic                     | —                  |              |
|                  | *Ammonia, Anhydrous          | lb. —                     |                                  |                    |              |

## Metals

|                          |      |       |         |
|--------------------------|------|-------|---------|
| Tin Straits              | cwt. | —     | 37.50   |
| Banca                    | cwt. | —     | —       |
| American, pure           | cwt. | —     | —       |
| 99 p.c. pure             | cwt. | 37.00 | — 23.50 |
| Copper Prime Lake        | cwt. | 16.50 | — 17.00 |
| Electrolytic             | cwt. | 16.00 | — 16.50 |
| Casting                  | cwt. | 16.00 | — 16.50 |
| Lead Amer. S. & R. Co.   | cwt. | —     | 7.75    |
| Open Mkt. Price          | cwt. | —     | 7.25    |
| Zinc (Spelter) Shipment  | cwt. | —     | 7.35    |
| Prompt                   | cwt. | —     | 6.62½   |
| Antimony, Jap. & Chinese | cwt. | —     | 6.62½   |
| Aluminum 98-99% Virgin   | cwt. | 28.00 | — 33.00 |
| 98-99% Remelted          | cwt. | 25.00 | — 27.00 |
| Remelted No. 12          | cwt. | —     | —       |
| Powdered                 | cwt. | —     | 42.00   |
| Magnesium, 99 p.c.       | lb.  | —     | 1.75    |
| Manganese ore            | unit | .55   | .60     |
| Nickel Ingot             | cwt. | —     | 43.00   |
| Shot                     | cwt. | —     | 43.00   |
| Electrolytic             | cwt. | —     | 45.00   |

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| Benzoic Acid            | Bromides          |
| Carbolic Acid           | Bismuth Salts     |
| Citric Acid             | Collodions        |
| Tartaric Acid           | Citrates          |
| Chloroform              | Iodides           |
| Ether Pro Narcosi       | Mercury Compounds |
| Guaiacol Liquid         | Quinine Salts     |
| Hexamethylene Tetramine | Salicylates       |

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## Coal-tar Crudes, Intermediates and Colors—Naval Stores

|                                     |                     |
|-------------------------------------|---------------------|
| Bismuth, (See Fine Chemical Prices) |                     |
| Cadmium                             | lb. 1.40            |
| Cobalt                              | lb. 2.50 — 3.00     |
| Mercury                             | flask 65.00 — 70.00 |
| Platinum, pure                      | oz. 100.00 — 110.00 |
| Iridium                             | oz. — 300.00        |
| Palladium                           | oz. 75.00 — 85.00   |
| Tungsten, ore per short ton unit    |                     |
| Wolframite, Chinese                 | 4.50 — 5.00         |
| Bolivian                            | 5.00 — 5.50         |
| Scheelite, Amer.                    | — 6.00              |
| Japanese                            | — 5.50              |
| Silver                              | oz. .90% — .99%     |

## Fertilizer Materials

|                                       |                      |
|---------------------------------------|----------------------|
| Ammonium Sulfate                      | 100 lbs. 4.85 — 5.10 |
| slood, dried, f.o.b., N.Y.            | — 8.00               |
| Bone, 3 and 50, ground, raw, ton      | — 48.00              |
| Cyanamide                             | unit 4.00 — 4.50     |
| Fish Scrap, dom., dried, f.o.b. works | — 7.25               |
| Nitrate Soda                          | 100 lbs. 3.00 — 3.05 |
| tankage, high-grade, f.o.b. Chicago   | 7.75 — 8.00          |
| Phosphate Rock—                       |                      |
| Florida, pebble, 68 p.c., ton         | — 6.85               |
| Tennessee, 78-80 p.c., ton            | 11.00 — 11.50        |
| Potassium muriate, 80 p.c., unit      | 1.75 — 2.00          |
| Sulfate crude                         | 4.50 — 4.60          |

## Naval Stores

|   |                    |
|---|--------------------|
| (Carloads ex-dock)                      |                    |
| Spirits Turpentine in bbls., gal.       | — — 1.27           |
| Wood Turpentine, steam distilled, bbls. | gal. — — —         |
| Destructive distilled, bbls., gal.      | — — —              |
| Pitch, prime                            | unit 12.00         |
| Rosins, B                               | 12.90              |
| D                                       | 12.90              |
| E                                       | 12.90              |
| F                                       | 12.90              |
| G                                       | 12.90              |
| H                                       | 12.90              |
| I                                       | 12.90              |
| K                                       | 12.90              |
| M                                       | 12.90              |
| N                                       | 12.90              |
| WG                                      | 12.90              |
| WW                                      | 13.15              |
| Rosin Oil, first run                    | gal. — — .70       |
| Second run                              | gal. — — .72 1/4   |
| Tar, kiln-burnt                         | bbls. — — 15.00    |
| Retort                                  | bbl. 15.25 — 16.00 |

## Dyestuffs

|                                    |                      |
|------------------------------------|----------------------|
| COAL-TAR CRUDES                    |                      |
| Anthracene, 80-85 p.c.             | lb. .75 — 1.00       |
| 40-45 p.c.                         | lb. .15 — .20        |
| Benzene, C. P.                     | gal. .35 — .40%      |
| (90 p.c.)                          | gal. .33 — .38%      |
| Carbazol                           | lb. .85 — 1.00       |
| Cresylic Acid, 96 p.c., dark, gal. | 1.10 — 1.20          |
| Straw, 97-98 p.c.                  | gal. 1.20 — 1.30     |
| Cresol, U.S.P.                     | lb. .18 — .21        |
| Creosote oil                       | gal. .20 — .30       |
| Dip. oil                           | gal. .37 1/2 — .40   |
| *Naphthalene, balls                | lb. .15% — .16       |
| Flake                              | lb. .11 — .14        |
| Phenol                             | lb. .12 — .17        |
| Export                             | lb. .15 — .16        |
| Pitcen, various grades             | ton 14.00 — 18.00    |
| Solvent naphtha                    | .30 — .35%           |
| Tar Acid Oil, 23 p.c.              | gal. 57 1/4 — 61 1/4 |
| 50 p.c.                            | gal. .75 — .80       |
| Toluene, pure                      | gal. .35 — .40%      |
| Xylene, 10 deg. dist. range        | gal. .45 — .50%      |
| 5 deg. dist. range                 | gal. .50 — .55%      |
| 2 deg. dist. range                 | gal. .60 — .65%      |

## INTERMEDIATES

|                             |                 |
|-----------------------------|-----------------|
| Acid 1, 2, 4.               | lb. 1.05 — 1.10 |
| Acid, Anthranilic           | lb. 2.20 — 2.50 |
| Technical                   | lb. 1.70 — 2.00 |
| Acid B                      | lb. — 2.25      |
| Acid Broenner's             | lb. 1.75 — 1.80 |
| Acid Chloroacetic           | lb. 1.75 — 1.80 |
| Acid Cleves                 | lb. 1.75 — 1.90 |
| Acid Gamma                  | lb. 4.00 — 4.23 |
| Acid H                      | lb. 1.70 — 1.85 |
| Acid Laurent's              | lb. 1.50 — 1.60 |
| Acid Metanilic              | lb. — 1.70      |
| Acid Monosulfonic F (delta) | lb. — 3.50      |
| Acid Naphthionic, Crude     | lb. — — .85     |
| Refined                     | lb. 1.10 — 1.15 |
| Acid Neville & Winther's    | lb. 1.80 — 1.85 |

|                            |                 |
|----------------------------|-----------------|
| Acid Phthalic              | lb. .50 — .55   |
| Anhydride                  | lb. .65 — .80   |
| Acid Picramic              | lb. 1.00 — 1.05 |
| Acid Picric                | lb. .30 — .50   |
| Acid Salicylic, tech.      | lb. .38 — .40   |
| Acid Sulfanilic crude      | lb. .33 — .35   |
| Acid Tobias                | lb. 2.25 — 2.75 |
| Acetanilide, tech.         | lb. .40 — .45   |
| o-Aminoacetanilide         | lb. 1.89 — 2.00 |
| Aminoazobenzene            | lb. 1.15 — 1.20 |
| o-Aminophenol              | lb. 2.25 — 2.50 |
| Hydrochloride              | lb. 2.00 — 2.25 |
| o-Aminophenol              | lb. 3.25 — 3.50 |
| Aniline Oil, (drums extra) | lb. .26 — .30   |
| Aniline Salt               | lb. .38 — .35   |
| Antifluorineone Subl.      | lb. 2.80 — 2.75 |
| Paste, 25 p.c.             | lb. 1.00 — 1.10 |

|                             |                   |
|-----------------------------|-------------------|
| Bayer's Salt                | lb. 1.05 — 1.10   |
| Benzaldehyde, Tech.         | lb. .65 — .75     |
| Benzidine Base              | lb. 1.15 — 1.25   |
| Benzidine Sulfate           | lb. 1.06 — 1.10   |
| Benzoyl chloride            | lb. 1.25 — 1.35   |
| Benzylchloride, 95-97       | lb. .26 — .30     |
| Bromobenzene                | lb. .75 — .80     |
| Chlorobenzene               | lb. .14 — .16     |
| Chlorhydrin                 | lb. — 2.50        |
| Diaminophenol               | lb. 5.50 — 6.00   |
| Dianisidine                 | lb. 8.00 — 9.00   |
| o-Dichlorobenzene           | lb. .15 — .20     |
| p-Dichlorobenzene           | lb. .15 — .25     |
| Dichlorobenzene, mixed      | lb. .07 1/2 — .08 |
| Diethylaniline              | lb. 1.50 — 1.60   |
| Dimethylaniline, drums ext. | lb. .90 — 1.10    |
| Dimethylsulfate             | lb. .90 — 1.00    |
| Dinitrophenol               | lb. .45 — .50     |
| Dinitrobenzene              | lb. .32 — .34     |
| Dinitrochlorobenzene        | lb. .30 — .32     |
| Dinitronaphthalene          | lb. .45 — .50     |
| Dinitrotoluene              | lb. .36 — .37     |
| Diphenylamine               | lb. .80 — .85     |

|                          |                 |
|--------------------------|-----------------|
| Ethyl Bromide            | lb. 1.05 — 1.10 |
| Ethyl Chloride           | lb. 1.00 — 1.10 |
| "G" Salt                 | lb. .80 — .90   |
| Hydrazobenzene           | lb. 1.50 — 2.00 |
| Micliker's Ketone        | lb. 4.00 — 4.25 |
| Monochlorobenzene        | lb. .14 — .16   |
| Monooxyaniline           | lb. 2.00 — 2.40 |
| a-Naphthol, crude        | lb. 1.15 — 1.25 |
| Refined                  | lb. 1.45 — 1.50 |
| b-Naphthol, distilled    | lb. .50 — .55   |
| a-Naphthylamine          | lb. .45 — .50   |
| b-Naphthylamine, tech.   | lb. 1.90 — 2.00 |
| Sublimed                 | lb. 2.25 — 2.50 |
| p-Nitroaniline           | lb. 1.15 — 1.20 |
| p-Nitroacetanilide       | lb. .80 — .85   |
| Nitrobenzene             | lb. .14 — .15   |
| p-Nitrochlorobenzene     | lb. .42 — .45   |
| Nitronaphthalene         | lb. .30 — .35   |
| p-Nitrophenol            | lb. .80 — .85   |
| m-Nitrophenol            | lb. .75 — .80   |
| p-Nitro-o-toluidine      | lb. .925 — .930 |
| p-Nitro-o-tolidine       | lb. .365 — 4.00 |
| p-Nitrosodimethylaniline | lb. — 2.90      |
| p-Nitrotoluene           | lb. 1.15 — 1.20 |
| Nitrotoluene-s, Mixed    | lb. .16 — .18   |
| o-Nitrotoluene           | lb. .30 — .32   |
| p-Phenylenediamine       | lb. 2.30 — 2.50 |
| m-Phenylenediamine       | lb. 1.30 — 1.35 |
| Phenyl-a-Naphthylamine   | lb. 2.50 — 2.75 |
| Phosgene                 | lb. 1.00 — 1.25 |
| Phthalic Anhydride       | lb. .65 — .80   |
| "R" Salt                 | lb. .85 — .90   |
| Resorcinol, Technical    | lb. 2.25 — 2.75 |
| Sodium Metallate         | lb. 1.45 — 1.50 |
| Sodium Naphthionate      | lb. .80 — .85   |
| Sodium Picramate         | lb. .90 — .95   |
| Schaeffer's Salt         | lb. — — .80     |
| c Toluene Sulfonamide    | lb. 2.75 — 3.00 |
| Tolidine                 | lb. 1.70 — 1.75 |
| Sulfate                  | lb. — — 1.10    |
| Toluidine, Mixed         | lb. .45 — .50   |
| o-Toluidine              | lb. .27 — .30   |
| p-Toluidine              | lb. 1.85 — 2.00 |
| m-Toluylenediamine       | lb. 1.50 — 1.60 |
| Triphenyl Phosphate      | lb. — — 1.00    |
| Xylylidine               | lb. .50 — .55   |

|                 |                 |
|-----------------|-----------------|
| COAL-TAR COLORS |                 |
| ACID COLORS:    |                 |
| Black           | lb. 1.25 — 1.70 |
| Blue            | lb. 1.00 — 5.00 |
| Brown           | lb. 1.25 — 2.00 |
| Green           | lb. 1.00 — 2.00 |
| Red             | lb. 1.00 — 2.00 |
| Yellow          | lb. 1.00 — 2.00 |

|                     |                 |
|---------------------|-----------------|
| OXAMINE COLORS:     |                 |
| Black               | lb. .70 — 1.00  |
| Blue                | lb. 1.65 — 2.00 |
| Orange              | lb. 1.40 — 1.50 |
| Red III             | lb. 1.65 — 2.00 |
| Scarlet             | lb. 1.75 — 2.00 |
| Yellow              | lb. 1.70 — 2.00 |
| Nigrosine, Oil Sol. | lb. .90 — .95   |

|                |                 |
|----------------|-----------------|
| SULFUR COLORS: |                 |
| Black          | lb. .20 — .30   |
| Blue           | lb. .165 — .185 |
| Brown          | lb. .35 — .45   |
| Green          | lb. 1.00 — 2.00 |
| Yellow         | lb. .90 — 1.00  |

|                              |                   |
|------------------------------|-------------------|
| CHROME COLORS:               |                   |
| Allizarin Blue, bright       | lb. 7.75 — 9.25   |
| Allizarin, medium            | lb. 6.25 — 7.50   |
| Allizarin Brown, conc.       | lb. — —           |
| Allizarin Cyanine            | lb. 10.00 — 12.00 |
| Allizarin Orange             | lb. 1.55 — 1.90   |
| Allizarin Red, 20 p.c. Paste | lb. 1.10 — 1.25   |
| Allizarin Yellow G.          | lb. — —           |
| Allizarin Yellow R.          | lb. — —           |
| Chrome Black, Dom.           | lb. 1.25 — 1.35   |
| Chrome Black, Imp.           | lb. 2.20 — 2.50   |
| Chrome Blue                  | lb. 2.50 — 2.75   |
| Chrome Brown                 | lb. 1.25 — 1.50   |
| Chrome Green, Dom.           | lb. — —           |
| Chrome Red                   | lb. — —           |
| Chrome Yellow                | lb. — — .70       |
| Gallocyanin                  | lb. 3.25 — 4.00   |

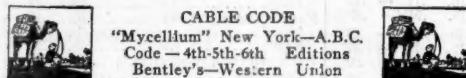
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|----------------------------------|-------------------|
| BASIC COLORS:                    |                   |
| Alkali Blue                      | lb. .85 — 1.45    |
| Auramine O                       | lb. 2.50 — 3.25   |
| Auramine OO                      | lb. 4.15 — 4.25   |
| Bismarck Brown R.                | lb. .70 — .90     |
| Bismarck Brown G.                | lb. 1.20 — 1.30   |
| Brilliant Green Crystals         | lb. 6.00 — 7.00   |
| Chrysodin R.                     | lb. .75 — 1.00    |
| Chrysodin Y                      | lb. .75 — .85     |
| Crystal Violet                   | lb. 5.00 — 6.00   |
| Emerald Green, Crystals          | lb. 8.00 — 8.50   |
| Indigo 20 p.c. paste             | lb. .85 — .95     |
| Fuchsian Crystals, Dom.          | lb. — — 6.50      |
| Fuchsian Base                    | lb. 4.50 — 5.50   |
| Magenta Dom.                     | lb. 4.25 — 4.75   |
| Malachite Green, Crystals        | lb. 4.50 — 5.00   |
| Malachite Green, Powd.           | lb. 3.50 — 3.60   |
| Methylene Blue, tech.            | lb. 2.75 — 3.75   |
| Methyl Violet, 3B.               | lb. 3.50 — 3.75   |
| Methyl Violet, 6B.               | lb. 4.50 — 5.00   |
| Nigrosine, spts. sol.            | lb. — — .85       |
| Nicrosine, water sol., blue, lb. | — — .70           |
| Phosphine G, Domestic            | lb. 7.00 — 10.00  |
| Rhodamine B, ex. con't.          | lb. 40.00 — 45.00 |
| Satranine                        | lb. 3.50 — 5.00   |
| Victoria Blue, B.                | lb. 5.00 — 5.50   |
| Victoria Blue, base, Dom.        | lb. 6.00 — 6.50   |
| Victoria Blue, crys.             | lb. 6.00 — 6.50   |
| Victoria Green                   | lb. 6.00 — 7.00   |
| Victoria Red                     | lb. 7.00 — 8.00   |
| Victoria Yellow                  | lb. 7.00 — 8.00   |
| Violamine R & B.                 | lb. — — 8.00      |

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Nitrobenzene  
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Para Nitrochlorobenzene  
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Sodium Metanilate  
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## Tanning Materials, Starches, Fats, Oils and Greases

## NATURAL DYESTUFFS

|                               |          |      |
|-------------------------------|----------|------|
| Annatto, fine                 | lb. .32  | .33  |
| Seed                          | lb. .05  | .06  |
| Carmine No. 40                | lb. 5.75 | .50  |
| Cochineal                     | lb. .60  | .62  |
| Gambier, see tanning.         |          |      |
| Indigo, Bengal                | lb. 2.00 | .225 |
| Oudes                         | lb. 2.00 | .225 |
| Guatemala                     | lb. 1.90 | .200 |
| Kirpahs                       | lb. 1.50 | .190 |
| Madras                        | lb. .90  | .110 |
| Madder, Dutch                 | lb. .25  | .27  |
| Nutgalls, blue Aleppo         | lb. .26  | .29  |
| Chinese                       | lb. .33  | .35  |
| Quercitron Bark, see tanning. |          |      |
| Turmeric, Madras              | lb. .09% | .10  |
| Aleppy                        | lb. .09% | .09% |

## DYEWOODS

|                              |           |        |
|------------------------------|-----------|--------|
| Barwood                      | lb. .06   | .06    |
| Camwood, chips               | lb. .16   | .20    |
| Fustic, sticks               | ton 40.00 | .50.00 |
| Chips                        | lb. .04   | .06    |
| Hypernic, chips              | lb. .07   | .09    |
| *Logwood Sticks              | ton 40.00 | .50.00 |
| Chips                        | lb. .04%  | .05%   |
| Quercitron Bark, see tanning |           |        |
| Red Saunders                 | lb. .15   | .16    |

## DYE EXTRACTS

|  |          |      |
|--|----------|------|
| Note: Range of prices on dye extracts includes quality range for large quantity. |          |      |
| Archil, Double   | lb. .24  | .27  |
| Triple   | lb. .18  | .19  |
| Concentrated   | lb. .24  | .27  |
| Cutch, Mangrove, see Tanning   |          |      |
| Rangoon, boxes   | lb. .15  | .18  |
| Liquid   | lb. .11  | .13  |
| Tablet   | lb. .13  | .14  |
| Cudbear, French  | lb. —    |      |
| English  | lb. .24  | .26  |
| Concentrated   | lb. —    |      |
| Flavine  | lb. 1.00 | .150 |
| Fustic, Solid  | lb. .24  | .32  |
| Crystals   | lb. .30  | .40  |
| Liquid, 51 deg.  | lb. .14  | .18  |
| Gall   | lb. .25  | .27  |
| Hematite Extract 51 deg.   | lb. .12  | .14  |
| Crystals   | lb. .28  | .35  |
| Hypernic, liquid, 51 deg.  | lb. .20  | .30  |
| Logwood, solid   | lb. .22  | .31  |
| 51 deg. Twaddle  | lb. .13  | .17  |
| Osage Orange, Extract 42 deg.  | lb. .09  | .16  |
| Crystals   | lb. —    | .20  |
| Persian Berries  | lb. .45  | .47  |
| Quebracho, see tanning.  |          |      |
| Quercitron, 51 deg.  | lb. .07% | .08% |
| Powdered, 100 p.c.   | lb. .14  | .18  |

## MISCELLANEOUS DYESTUFFS

|                      |       |     |
|----------------------|-------|-----|
| Albumen, Egg, edible | lb. — | .75 |
| Technical            | lb. — | .50 |
| Blood, imported      | lb. — | .70 |
| Domestic             | lb. — | .75 |

## DEXTRINS AND STARCHES

|                                |              |             |
|--------------------------------|--------------|-------------|
| British Gum                    | per 100 lbs. | 6.35 — 6.55 |
| Dextrin, Corn, white or yellow | per 100 lbs. | 6.05 — 6.25 |
| Potato, white or canary        | lb. .11      | .13         |
| Starch, Powd., bags            | 100 lbs.     | 4.23 — 4.32 |
| Pearl, bags                    | 100 lbs.     | 4.08 — 4.18 |
| Potato, Domestic               | lb. .07%     | .08         |
| Imported, duty paid            | lb. .06%     | .07         |
| Tapioca flour, high grade      | lb. .08      | .09         |
| Medium grade                   | lb. .05      | .06         |
| Low grade                      | lb. .04      | .05         |

\*Nominal

## Tanning Materials

|                             |                   |
|-----------------------------|-------------------|
| Algarobilla                 | ton — —           |
| Divi Divi                   | ton 70.00 — 75.00 |
| Hemlock Bark                | ton 16.00 — 18.00 |
| Mangrove, Africar, 38 p.c.  | ton 75.00 — 80.00 |
| Bark, S. A.                 | ton 67.00 — 70.00 |
| Myrobalans, II              | ton 60.00 — 65.00 |
| I                           | ton 45.00 — 50.00 |
| B1                          | ton 58.00 — 63.00 |
| B2                          | ton 42.00 — 47.00 |
| R2                          | ton 42.00 — 47.00 |
| Oak Bark                    | ton 20.00 — 23.00 |
| Ground                      | ton — 25.00       |
| Quercitron Bark rough       | ton 13.00 — 15.00 |
| Ground                      | ton 27.00 — 29.00 |
| Sumac, Sicily, 28 p.c. tan. | ton — 75.00       |
| Virginia, 25 p.c. tan.      | ton 65.00 — 70.00 |
| Valonia Cups 28-33 p.c.     | ton 45.00 — 55.00 |
| Beard, 40 p.c.              | ton 70.00 — 80.00 |
| Wattle Bark                 | ton 70.00 — 80.00 |

## TANNING EXTRACTS

|   |                            |      |
|---|----------------------------|------|
| Chestnut, clarified, 25 p.c. tan.         | bbds. f.o.b. wks. lb. .03% | .04  |
| Decolorized, 25 p.c. bbds. lb. .04%       | .05                        |      |
| Powdered, 50 p.c. lb. .06                 | .07                        |      |
| Gambier, 25 p.c. tan.                     | lb. .09                    | .10% |
| Common                                    | lb. .09                    | .09% |
| Cubes, Singapore                          | lb. .15                    | .16  |
| Hemlock, 25 p.c. tan works.               | lb. .05%                   | .06% |
| Larch, 25 p.c. tan.                       | lb. .04%                   | .05  |
| Crystals, 50 p.c. tan.                    | lb. .09%                   | .09% |
| Mangrove, 55 p.c. tan.                    | lb. .11                    | .12  |
| Liquid, 35 p.c. tan.                      | lb. .06%                   | .07% |
| Myrobalans, II, 23-25 p.c. tan.           | lb. .07%                   | .08  |
| Solid, 50 p.c. tan.                       | lb. .12                    | .12% |
| Substitute, II, 23-25 p.c. tan.           | lb. .07                    | .07% |
| Oak Bark, liquid, 23-25 p.c. tan.         | lb. .06%                   | .07% |
| Tanks                                     | lb. .06%                   | .06% |
| Quebracho, liquid, 35 p.c. tks.           | lb. .06                    | .064 |
| Barrels                                   | lb. .06%                   | .064 |
| 35 p.c. tan, bleaching.                   | lb. .07                    | .07% |
| Solid, 65 p.c. tan ordinary.              | lb. .09%                   | .10  |
| Clarified                                 | lb. —                      | .12  |
| Spruce, liquid, 25 p.c. tan, works, tanks | lb. .01%                   | .01% |
| Powd., 50 p.c. tan.                       | lb. .02%                   | .03  |
| Sumac, liquid, tan.                       | lb. .07%                   | .08  |

## Oils

## ANIMAL AND FISH

(Carloads)

|                                 |             |         |
|---------------------------------|-------------|---------|
| Cod Newfoundland                | gal. .95    | — 1.00  |
| Second Hands                    | gal. —      | .85     |
| Domestic, prime                 | gal. .90    | — .95   |
| Cod Liver, Newfoundland         | bbds. 55.00 | — 60.00 |
| Norwegian                       | bbds. 55.00 | — 60.00 |
| Degras, American                | lb. .06     | .064    |
| English                         | lb. .06%    | .07     |
| Neutral                         | lb. .10     | .13     |
| Herring                         | lb. —       | .65     |
| Horse                           | lb. .11     | .12     |
| Lard, prime                     | gal. 1.55   | — 1.60  |
| Off prime                       | gal. 1.35   | — 1.40  |
| No. 1                           | gal. —      | .120    |
| Extra, No. 1                    | gal. —      | .125    |
| No. 2                           | gal. —      | .115    |
| Menhaden, Light strained        | gal. —      | .50     |
| Yellow, bleached                | gal. —      | .53     |
| Extra, bleached, winter         | gal. —      | .85     |
| Blown                           | gal. —      | .95     |
| Crude, f.o.b. works, bbls. gal. | —           | .50     |
| Tanks                           | gal. —      | .45     |
| Neatsfoot, 20 deg.              | gal. —      | .65     |
| 30 deg., cold test              | gal. —      | .60     |
| 40 deg., cold test              | gal. —      | .50     |
| Prime                           | gal. 1.55   | — 1.65  |
| Oleo, Oil                       | lb. .16%    | .20     |
| Red Distilled                   | lb. .11%    | .12     |
| Saponified                      | lb. .11%    | .12     |
| Sod                             | lb. —       | —       |
| Sperm bleached winter           | —           |         |
| 38 deg., cold test              | gal. —      | 1.85    |
| 45 deg., cold test              | gal. —      | 1.80    |

\*Nominal

|                              |           |        |
|------------------------------|-----------|--------|
| Stearic Acid, single pressed | lb. .20%  | .21    |
| Double pressed               | lb. .21%  | .23    |
| Triple pressed               | lb. .22%  | .23    |
| Tallow, acidless             | gal. 1.25 | — 1.30 |
| Whale, natural winter        | gal. —    | — 1.15 |
| Bleached, winter             | gal. —    | — 1.20 |
| Crude, tanks, Coast          | lb. —     | — .13  |

## VEGETABLE OILS

|  |           |        |
|--|-----------|--------|
| Castor, No. 1 bbls.                                  | lb. —     | .15    |
| Cases  | lb. .16   | .17    |
| No. 3  | lb. .14%  | .15    |
| China Wood Oil, bbls.                                | lb. .17   | .17%   |
| Coast, bbls.   | lb. .14%  | .15%   |
| Coconut Dom. Ceylon, bbls.                           | lb. .15%  | .16    |
| Tanks, Spot  | lb. .14%  | .14%   |
| Cochin, bbls. Dom.                                   | lb. .17   | .17%   |
| Tanks  | lb. .15%  | .16    |
| Manila, tanks, coast                                 | lb. .12   | .13    |
| Edible   | lb. .18   | .18%   |
| Copra, Pacific Coast                                 | lb. .07%  | .07%   |
| Corn, refined, bbls.                                 | lb. .16   | .16%   |
| Crude Tanks, Shipping pt. lb.                        | lb. .10   | .10%   |
| Barrels  | lb. .13%  | .14    |
| Cottonseed, Crude, f. o. n. mills, in buyers' tanks. | lb. .073% | .08    |
| Prime Summer, Yel. bbls. lb.                         | lb. .11%  | .12%   |
| *White   | lb. —     |        |
| Winter yellow  | lb. .14%  | .14%   |
| Hempseed   | lb. .17   | .17%   |
| Linseed, raw car lots                                | gal. 1.08 | — 1.10 |
| 5 barrel lots  | gal. 1.11 | — 1.13 |
| Boiled, 5-bbl. lots                                  | gal. 1.14 | — 1.16 |
| Double Boiled, 5-bbl. lots                           | gal. 1.16 | — 1.18 |
| Raw tanks  | gal. 1.01 | .10%   |
| English, Spot  | gal. —    | .12    |
| Olive, denatured                                     | gal. 3.00 | — 3.10 |
| Edible   | gal. 3.50 | — 3.60 |
| Foots  | lb. .13   | .14    |
| Palm Lagos, casks.                                   | lb. .10%  | .11    |
| *Benin   | lb. —     |        |
| Niger  | lb. .10   | .10%   |
| Palm Kernel, domestic                                | lb. .16   | .16%   |
| Imported   | lb. .15%  | .16%   |
| Peanut Oil, refined                                  | lb. .17   | .17%   |
| *Crude, f.o.b. mills tanks                           | lb. —     |        |
| Oriental, coast, tanks                               | lb. .09%  | .10    |
| Crude, Bbls., spot                                   | lb. .14%  | .15    |
| Perilla, coast, tanks                                | lb. .11   | .12    |
| Bbls., N. Y.   | lb. —     |        |
| Poppy Seed   | gal. —    | .325   |
| Rapeseed, ref'd                                      | bbl. 1.28 | — 1.30 |
| Blown  | gal. 1.45 | — 1.50 |
| Crude, coast, tanks                                  | lb. .12%  | .13    |
| *Sesame, domestic, edible, gal.                      | lb. .00   | .00%   |
| *Imported  | lb. .225  | .225   |
| Soya Bean, tanks, Coast, Oct. bbls.                  | lb. .08%  | .08    |
| Futures  | lb. .00   | .00%   |
| New York, bbls., crude                               | lb. .12%  | .13    |
| Edible   | lb. .15   | .15%   |
| Walnut, Crude  | lb. .14   | .15    |

## GREASES, LARDS, TALLows

(New York Markets)

|                                  |           |         |
|----------------------------------|-----------|---------|
| Grease, white                    | lb. —     | .12%    |
| Yellow                           | lb. .08%  | .09     |
| House                            | lb. —     | .08     |
| Brown                            | lb. —     | .07%    |
| Lard City                        | lb. .20%  | .20%    |
| Compound                         | lb. .16   | .16%    |
| Stearine, lard                   | lb. —     | .24%    |
| Oleo                             | lb. —     | .14%    |
| Tallow, edible                   | lb. —     | .15     |
| City, Special                    | lb. .08%  | .09     |
| (Chicago Markets)                | lb. —     |         |
| Tallow, edible                   | lb. .12%  | .13     |
| City Fancy                       | lb. .12   | .12%    |
| Prime Packers                    | lb. .11%  | .12%    |
| Grease, Choice White             | lb. .12   | .12%    |
| "A" White                        | lb. .09%  | .09%    |
| "B" White                        | lb. .09   | .09%    |
| Yellow                           | lb. .08%  | .08%    |
| Brown                            | lb. .07%  | .08     |
| Bone                             | lb. .06   | .06%    |
| House                            | lb. .06   | .06%    |
| Stearine, prime oleo.            | lb. .14%  | .15     |
| Lard leaf                        | lb. —     | .22     |
| OIL CAKE AND MEAL                | lb. —     |         |
| *Cottonseed Cake, f.o.b. Texas   | —         |         |
| f.o.b. New Orleans               | —         |         |
| Cottonseed, Meal, f.o.b. Atlanta | 45.00     | — 50.00 |
| Columbia                         | —         |         |
| New Orleans                      | —         |         |
| *Corn Cake                       | short ton |         |
| Meal Chicago                     | short ton | 53.00   |
| Linseed cake, dom.               | short ton | — 59.00 |
| Linseed Meal                     | short ton | — 60.00 |
| *Nominal                         | —         |         |

## Bichromate of Potash

## Bichromate of Soda

### HERRICK & VOIGT

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Merchants

1 LIBERTY STREET      NEW YORK CITY

THE *Jelldey* BRAND

### Phthalic Anhydride

PURE Needle CRYSTALS

|                    |           |
|--------------------|-----------|
| Moisture           | None      |
| Chlorides          | None      |
| Chlorine           | None      |
| Sulphur            | None      |
| Benzoin Acid       | None      |
| Phthalic Acid      | None      |
| Ash                | 0.03%     |
| PHTHALIC ANHYDRIDE | 99.97%    |
| MELTING POINT      | 131.90°C. |

Containers, 5 to 200 lbs.  
Domestic and Export

New Process, refined to the  
HIGHEST DEGREE OF PURITY  
No variation in quality

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## Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports from October 9 to October 16

**ACIDS**—Arsenic, White, 100 cs., International Trading Corporation, Yokohama; Arsenious, 150 cs., American Trading Co., Kobe; Cresylic, 18 drums, R. W. Greeff & Co., Hull; Lactic, 97 carboys, Mallinckrodt Chemical Works, Rotterdam; 24 casks, Apax Chemical Co., Inc., Rotterdam; Oxalic, 60 bbls., American Trading Co., Kobe; 26 bbls., 54 bbls., R. L. Fuller & Co., Yokohama; Tartaric, 20 casks, Italian Discount & Trust Co., Leghorn; 60 kegs; Japanese American Co., Kobe

**ALIZARIN**—COLORS—70 pkgs., Kuttroff, Pickhardt & Co., Rotterdam; 3 cs., H. A. Metz & Co., Rotterdam

**ALMONDS**—250 bxs., Bank of New York, Malaga; 1 pkg., A. E. Ritwagen, Malaga; 225 bxs., Philadelphia National Bank, Malaga; 260 bxs., A. Brown & Son, Malaga; 900 bxs., Banker's Trust Co., Malaga; 30 bxs., W. Schade & Co., Malaga; 30 bgs., Brown Bros. & Co., Messina

**ALOES**—142 cs., R. Desvergne, Curacao

**AMMONIUM**—Carbonate, 40 casks, American Express Co., Hull

**ANILINE DYES**—61 pkgs., Kuttroff, Pickhardt Co., Rotterdam; 4 casks, P. Freeman & Bros., Rotterdam; 2 cs., H. A. Metz & Co., Rotterdam; 12 bbls., 3 kegs, A. Klipstein & Co., Rotterdam

**ANXATTO**—130 bgs., A. S. Lascelles & Co., Kingston; 11 bgs., Macoy & Dunham, Kingston

**ARCHIL**—7 casks, J. C. Wiarda & Co., Hull

**ARGOLIS**—100 casks, Tartar Chemical Works, Leghorn; 27 casks, Tartar Chemical Works, Naples; 283 bgs., C. Pfizer & Co., Lisbon

**ARSENIC**—Powder, 300 cs., L. L. Johns & Co., Kobe

**BARIUM**—Carbonate, 54 casks, P. Uhrlau & Co., Rotterdam; Nitrate, 1 cask, National City Bank, Rotterdam

**BARK**—Quillaja, 30 bds., Anglo South American Bank, Valparaiso

**BAY RUM**—1 cs., McDougall Co., Barbados

**BEANS**—Cocao, 986 bgs., Mercantile Bank of America, Inc., La Guayra; 100 cs., American Shipping Co., Rotterdam; 100 cs., 10 pkgs., 6 cs., H. Hanstra & Co., Rotterdam; 29 bgs., Baker Cocoanut Co., Kingston; 819 bgs., A. S. Lascelles & Co., Kingston; 4,100 bgs., Foreign Credit Corporation, Bahia; 3,000 bgs., Wood & Sellick, Bahia; 3,394 bgs., W. R. Grace & Co., Bahia; 2,700 bgs., London & Brazilian Bank, Ltd., Bahia; 550 bgs., Guaranty Trust Co., Bahia; 1,000 bgs., Irving National Bank, Bahia; 1,000 bgs., Smith & Schipper, Bahia; 18 bgs., Dexter Trading Co., Bahia; 3,000 bgs., Bank of New York, Bahia; 1,000 bgs., H. H. Winter & Co., Bahia; 1,200 bgs., Israels & Wessels, Bahia; 800 bgs., W. R. Grace & Co., Trinidad; 50 bgs., T. Scott & Co., Trinidad; 200 bgs., Merchant's Bank of America, Inc., Trinidad; 300 bgs., Middleton & Co., Trinidad; 500 bgs., L. D. Verna, South Pacific Ports; 500 bgs., L. Guzman & Co., South Pacific Ports; 500 bgs., W. R. Grace & Co., La Guayra; 380 bgs., 100 bgs., W. R. Grace & Co., Sanchez; 25 bgs., W. Schall & Co., Sanchez; 32 bgs., F. Ricart & Co., Sanchez; 620 bgs., Vasquez, Correa & Co., Sanchez; 100 bgs., J. H. Hamlin & Son, Inc., Sanchez; 196 bgs., W. Schall & Co., Puerto Plata; 800 bgs., Michelema & Co., Puerto Plata; 400 bgs., Porcelli, Vicini & Co., Puerto Plata

**Vanilla**, 3 cs., Dodge & Olcott, Rotterdam; 24 cs., Foreign American Banking Corporation, Marseilles; 23 cs., Dodge & Olcott, Marseilles; Tonka, 18 casks, American Trading Co., Trinidad

**BERLIN BLUE**—24 casks, Fuchs & Lang Manufacturing Co., Rotterdam

**BERRIES**—Cubeb, 10 bgs., C. V. Sparhawk, Rotterdam; Juniper, 1,200 bgs., National Park Bank, Leghorn

**BITTERS**—3,400 cs., 1,530 half cs., J. W. Wupperman, Trinidad

**CAMPHOR**—100 cs., Celluloid Co., Kobe; 50 cs., F. Cundill & Co., Kobe; 52 cs., MacDonell Chow Corporation, Shanghai; Crude, 10 tubs, MacDonell Chow Corporation, Shanghai

**CHEMICALS**—63 pkgs., Merck & Co., Rotterdam; 148 casks, Hummel & Robinson, Rotterdam; 483 cs., S. Suzuki & Co., Kobe

**CHINOIDINE**—300 tons, R. W. Greeff, Rotterdam

**CINCHONINE ALKALOID**—11 cs., American Express Co., Rotterdam; Sulfate, 10 cs., R. W. Greeff & Co., Rotterdam

**COPRA**—84 bgs., Furness, Withy & Co., Leghorn; 124 bgs., F. C. Hill, San Juan

**CRESOL**—140 casks, Celluloid Co., London

**CUTTLEFISH BONE**—25 cs., Schieffelin & Co., Leghorn; 135 cs., 2 bgs., R. Santerano, Naples; 36 cs., Hershey, Maxim, Marseilles

**DEXTRINE**—150 bbls., E. M. Javitz & Co., Rotterdam; 1 cs., Rikkers Bros., Rotterdam

**DIVI DIVI**—144 bgs., R. Deaverne, Curacao; 2,208 bgs., M. H. Fernandez, Maracaibo

**DRUGS**—28 cs., M. Herman & Co., Marcellines; 3 cs., France & New York Medicine Co., Havre; 18 cs., E. Fougera & Co., Havre; 34 cs., S. J. Wallau, Havre; 34 cs., Ciba Co., Havre; 2 cs., Puerto Rican Express Co., San Juan

**EMERY**—3 cs., Globe Shipping Co., Rotterdam

**ERGOT**—12 cs., E. Rebus, Lisbon

**EXTRACTS**—Logwood, 57 bbls., T. S. Todd & Co., Monte Cristi

**FLOWERS**—Linden, 17 bds., Peek & Velsor, Leghorn

**FRUIT JUICE**—2 bbls., W. J. Bush & Co., London; 10 cs., United Preserving Factories, Rotterdam; Raspberry, 6 cs., W. J. Bush & Co., London

**FUSTIC**—111 pks., Hollinghurst & Co., Panama

**GALL NUTS**—160 cs., Hartman Pacific Co., Hankow

**GELATIN**—5 cs., American Trading Co., London; 727 cs., C. B. Richard & Co., Havre; 46 cs., Puttmann, Rotterdam; Sheets, 1 cs., M. Guest, Southampton; Powdered, 640 bgs., 100 bgs., Milligan & Higgins Gelatine Co., Rotterdam

**GLYCERIN**—33 drums, Curacao Trading Co., Rotterdam; 10 drums, Marx & Rawolle, Southampton; 100 drums, du Pont de Nemours Co., Marseilles; 8 drums, Marx & Rawolle, London; Crude, 12 drums, American Trading Co., Rio de Janeiro; Dynamite, 21 drums, Thorne & Fehr, Rotterdam

**GRAPHITE**—170 casks, Mechanics & Metals National Bank, Marseilles

**GUM**—Asafetida, 1 box, J. L. Hopkins, La Guayra; Copal, 34 cs., H. Peabody & Co., Tandjong Priok; 373 bks., Pablo Homs, Tandjong Priok; 1 lot, Guaranty Trust Co., Tandjong Priok; 560 bgs., Kidder, Peabody & Co., Singapore; 190 bgs., L. C. Gillespie & Co., Singapore; 240 bgs., Innes & Co., Singapore; Damar, 1 lot, Pablo Homs, Tandjong Priok; 400 cs., L. C. Gillespie & Sons, Batavia

**HERBS**—8 bxs., J. L. Hopkins & Co., Marcellines; Dry, 20 bds., Reed & Keller, Genoa; Medicinal, 40 bds., A. Joensson & Co., Leghorn; 45 bds., F. B. Vandegrift & Co., Leghorn; 80 bds., Bernard, Judea & Co., Genoa

**HOPS**—42 bds., Globe Shipping Co., Rotterdam; 45 bds., R. F. Downing & Co., Rotterdam; 81 bds., S. S. Steiner, Rotterdam; 27 bds., S. S. Steiner, Rotterdam; 25 bds., Globe Shipping Co., Rotterdam

**IRON OXIDE**—400 bbs., 100 scks., C. K. Williams & Co., Malaga; 1 cs., American Express Co., Southampton

**KOLA NUTS**—1 bgs., A. S. Lascelles & Co., Kingston; 2 bgs., Macoy & Dunham

**LAMP BLACK**—62 casks, Hummel & Robinson, Rotterdam

**LEAVES**—Buchu, J. L. Hopkins, La Guayra; Henna, 22 bds., Peek & Velsor, London; Laurel, 55 bds., L. Samuel, Leghorn; Sage, 87 bgs., C. Canellos, Calamata; 2 cs., G. Athanassopoulos, Calamata; Stramonium, 95 bds., Smith, Kline & French Co., Leghorn; 9 bds., Peek & Velsor, Leghorn

**LIME**—Citrate, 172 casks., Goldman, Sachs & Co., Messina; 336 casks., C. Pfizer & Co., Messina; 158 casks., Perry, Ryer & Co., Dominica

**LIME JUICE**—28 casks., Van Dyk & Linisay Co., Dominica

**LOGWOOD**—495 tons, Oakes Manufacturing Co., Port Antonio

**MAGNESITE**—Calcinated, 428 casks., H. J. Baker & Bros., Rotterdam

**MANGANESE**—2,000 tons, Carnegie Steel Co., Calcutta

**MEDICINAL POWDER**—17 cs., J. Personeni, Genoa

**MEDICINALS**—2 cs., R. M. Gigante & Co., Naples; 2 cs., Sanitogeno Co., Naples; 7

cs., Downing Foreign Express, Genoa; 145 cs., J. Personeni, Genoa

**MENTHOL**—5 cs., American Trading Co., London; 20 cs., Baring Bros. & Co., London; Crystals, 75 cs., Rockhill & Vietor, Kobe; 50 cs., S. W. Bridges & Co., Kobe; 150 cs., Vick Chemical Co., Kobe; 50 cs., MacKellar & Co., Yokohama

**MERCURY**—500 pkgs., East River National Bank, Genoa; 100 pkgs., Bank of Manhattan Co., Genoa

**MICA**—Splittings, 200 cs., Brown Bros. & Co., Calcutta

**NAPHTHALENE**—6 casks., Textile Alliance Co., Rotterdam; 400 cs., R. L. Fuller & Co., Yokohama; 21 bbls., Donald & Co., Rotterdam; 20 casks., Kidder, Peabody & Co., Rotterdam; Crude, 100 bgs., White Tar Co., Hull; 40 casks., Dana & Co., Hull; 500 bgs., Calco Chemical Co., Hull; Flakes, 100 cs., National City Bank, Hull; 33 casks., National City Bank, Rotterdam; 500 cs., G. Tabor & Co., Osaka; Powder, 200 cs., Durel & Dodge, Kobe

**NAPHTHOL**—26 bbls., Willingson Co., Kobe

**OILS**—Cod, 150 casks., Cook & Swan Co., Halifax; 100 casks., Bridgetts & Co., St. Johns; 200 casks., Swan & Finch, St. Johns; Codliver, 15 bbls., Townes & James, St. Johns; Linseed, 234 bbls., W. Van Doorn, Rotterdam; Olive, 100 cs., G. Nicholas & Co., Nice; 465 cs., National Park Bank, Nice; 890 cs., Irving National Bank, Malaga; 100 bbls., A. E. Ritwagen, Malaga; 100 casks., F. Bertoli & Co., Genoa; 9 cs., American Express Co., Marseilles; 145 cs., J. Wagner & Sons, Nice; 500 cs., Standard International Despatch, Genoa; 500 cs., L. Gandolfi & Co., Genoa; 500 cs., M. Romeo & Co., Genoa; 330 cs., S. S. Pierce & Co., Marseilles; 280 cs., Meyer & Lange, Marseilles; 100 cs., J. P. Smith & Co., Marseilles

**OILS, ESSENTIAL**—4 cs., G. Lueders & Co., Rotterdam; 61 cs., A. Chrisl & Co., Grasse; 2 cs., A. Brown & Co., Grasse; 31 cs., Cle Morana, Grasse; 8 cs., Watermeyer Co., Grasse; 12 cs., Unger & Co., Grasse; 20 cs., Delphi Products Co., Grasse; 12 cs., G. Lueders & Co., Grasse; 2 cs., W. J. Bush & Co., London; 3 cs., A. Chrisl & Co., London; Bergamot, 6 cs., Asperges & Co., Copenhagen; Caraway, 1 cs., Magnus, Maber & Reynard, Rotterdam; Coriander, 1 cs., A. Chrisl & Co., Rotterdam; Fennel, 3 cs., Japanese American Co., Kobe; Juniper Berry, 2 cs., Orbis Products Trading Co., Rotterdam; 5 cs., A. A. Stillwell & Co., Rotterdam; Lemon, 2 cs., 10 quarter cs., Heidelbach, Ickelhheimer & Co., Messina; 300 quarter cs., G. Lueders & Co., Messina; 200 cs., Brown Bros. & Co., Messina; Lime, Distilled, 4 cs., F. S. Maynard & Co., Dominica; 3 cs., Van Dyk & Lindsay Co., Dominica; Expressed, 7 cs., F. S. Maynard & Son, Dominica; 8 cs., Van Dyk & Lindsay Co., Dominica; Orange, 3 cs., Huth, Gillespie & Co., Kingston; 3 cs., Middleton & Co., Dominica; Patchouli, 2 cs., Pacific Trading Corporation, Singapore

**PEEL**—Lemon, 20 cs., Smith & Schipper, Leghorn; 25 cs., Konig Bros., Co., Leghorn; Orange, 15 cs., Konig Bros., Co., Leghorn

**PERFUMERY**—3 cs., Rockhill & Vietor, Rotterdam; 110 cs., C. Baez, Southampton; 12 cs., Cie Francaise Des Parfums D'Orsay; 2 cs., J. W. McGuire, Southampton; 4 cs., J. Personeni, Genoa; 5 cs., American Express Co., Marseilles; 80 cs., Roger & Gallet, Havre; 18 pkgs., G. Lueders & Co., Havre; 4 cs., A. Veldhusen, Havre; 2 cs., Irving National Bank, Havre; 4 cs., Lord & Taylor, Havre; 10 cs., Harriman National Bank, Havre; 9 cs., Downing & Co., Havre; 19 cs., Park & Tilford, Havre; 197 cs., A. H. Smith & Co., Havre; 9 cs., National Gum Mica Co., Havre; 14 cs., 1 cs., E. Utard, Havre; 2 cs., H. Bende, Inc., Havre; 3 cs., J. Wanamaker, Havre; 1 cs., 1 cs., M. Levy, Havre; 3 cs., American Excelsior Trading Co., Havre; 2 cs., Abram & Kateman, Havre; 4 cs., B. E. Levy, Havre; 17 cs., American Express Co., Southampton; 10 cs., F. Trindie & Co., Havre; 105 cs., C. Baez, Havre; 14 cs., G. Borgfeldt & Co., Marseilles; 9 cs., G. Borgfeldt & Co., Rotterdam

**PHENACETIN**—10 cs., Japanese American Co., Kobe

**PLUMBAGO**—482 bbls., C. E. Pettis, Co.



Colombo; 132 bbls., McCullough & Dalzell, Colombo; Copenhagen; 39 drums, L. Ratner & Co., Rotterdam.

**POTASSIUM SALTS**—**Bichromate**, 17 casks., National City Bank, Kobe; 9 casks., Asperg & Co., Copenhagen; **Bromide**, 25 cs., Japanese American Trading Co., Kobe; **Chlorate**, 250 casks., Kuttroff, Pickhardt & Co., Rotterdam.

**QUICKSILVER**—58 flasks, Pacific Commercial Co., Yokohama.

**QUINIDINE ALKALOID**—10 cs., American Express Co., Rotterdam.

**ROOTS**—**Aithea**, 6 bbls., J. L. Hopkins & Co., Leghorn; **Belladonna**, 20 bbls., Irving National Bank, Rotterdam; **Doggrass**, 20 bbls., Irving National Bank, Rotterdam; **Ipecac**, 5 bgs., Flidanque Bros. & Sons, Panama; 2 cs., Ultramarines Corporation, Cristobal; 2 casks., Japanese American Co., Kobe; **Orris**, 144 bgs., G. Lueders & Co., Leghorn; 66 bgs., Seabury & Johnson, Leghorn; 42 bgs., A. Stallman & Co., Leghorn.

**SAFROL**—10 drums, Magnus, Mabey & Reynard, Kobe; 30 drums, J. B. Horner, Kobe.

**SAL AMMONIAC**—91 casks., Banca Commerciale Italiana.

**SALOL**—20 kegs, Japanese American Co., Kobe.

**SEED LAC**—100 bgs., M. Feizel Bros., London.

**SEEDS**—**Caraway**, 150 bgs., Jaburg Bros., Rotterdam; 200 bgs., International Import & Export Co., Rotterdam; 200 bbls., 117 bbls., Van Waverens Graanhandel, Ltd., Rotterdam; 100 bgs., Schiltzus American Trading Co., Rotterdam; 25 bgs., F. L. Kraemer & Co., Rotterdam; 68 bgs., 300 bgs., Catz American Co., Rotterdam; **Celery**, 5 bbls., Hopkins & Co., Marseilles; **Flaxseed**, 119-985 bgs., Spencer Kellogg & Co., Buenos Aires; **Millet**, 48 pkgs., G. Gommi, Genoa; **Mustard**, 100 bgs., Catz American Co., Rotterdam; **Poppy**, 300 bgs., Smith, Kline & French Co., Rotterdam; 25 bgs., 32 bgs., American Bluefriesveem, Inc., Rotterdam; 50 bgs., Jaburg Bros., Rotterdam; 75 bbls., 116 bbls., 50 bbls., Van Waverens Graanhandel, Ltd., Rotterdam; 100 bgs., 200 bgs., Graham Co., Inc., Rotterdam; 100 bgs., Chatham & Phenix National Bank, Rotterdam; **Blue**, 100 bgs., J. D. Nordiner, Rotterdam; **Rape**, 117 bbls., Van Waverens Graanhandel, Ltd., Rotterdam; **Sesame**, 700 bgs., Hartman Pacific Co., Hankow.

**SILVER-Sulfide**, 5 pkgs., Garcia & Diaz, South Pacific Ports; 2 cs., Mercantile Bank of the Americas, Inc., South Pacific Ports; 4 cs., W. Schall & Co., South Pacific Ports.

**SOAP**—**Castile**, 1 cs., American Express Co., Marseilles; 350 bgs., Irving National Bank, Leghorn; 200 bgs., L. Nunes, Leghorn; 200 bgs., National City Bank, Leghorn; 2,000 bgs., J. P. Smith, Marseilles.

**SODIUM SALTS**—**Bromide**, 10 cs., C. L. Hulsking, Inc., Yokohama; **Hydrosulfite**, 18 casks., 75 casks., Kuttroff, Pickhardt & Co., Rotterdam; **Nitrate**, 2,196 bgs., W. R. Grace & Co., Antofagasta; 8,942 bgs., W. R. Grace & Co., Iquique; **Sulfide**, 23 drums, Bank of Italy, Hankow.

**SPICES**—**Chili**, 175 bbls., Frame & Co., Kobe; **Cinnamon**, 5 bbls., General Express & Mercantile Co., La Guaya; 150 bbls., C. R. Standargo, Colombo; **Cloves**, 100 pkgs., Frame & Co., Marseilles; **Ginger**, 33 bgs., A. S. Lascelles & Co., Kingston; 2 bbls., 1 cs., Garcia & Segur, San Juan; **Mace**, 78 bbls., Frame & Co., Grenada; 28 cs., 13 cs., H. W. Peabody & Co., Tandjiong Priok; **Nutmegs**, 22 bgs., Willard Hawes & Co., Grenada; 40 bgs., Royal Bank of Canada, Grenada; 330 bgs., Frame & Co., Grenada; 140 bgs., Middleton & Co., Grenada; 197 bgs., Brown Bros. & Co., Padang; 60 cs., 91 cs., H. W. Peabody & Co., Tandjiong Priok; **Pepper**, Black, 928 bgs., 500 cs., Cat American Co., Rotterdam; **Pimento**, 65 bgs., 120 bgs., Huith, Gillespie & Co., Kingston; 190 bgs., A. S. Lascelles & Co., Kingston; 732 bgs., A. S. Lascelles & Co., St. Ann's Bay; 500 bgs., J. E. Kerr & Co., Kingston; 131 bgs., 135 bgs., J. H. Hamlin & Sons, Kingston; 174 bgs., C. H. Watts, Inc., Kingston; 830 bgs., Macoy & Dunham, Kingston.

**SPONGES**—4 bbls., J. H. Rhodes & Co., Nassau; 17 bbls., T. J. Markwalter, Nassau; 14 bbls., J. Bloch, Inc., Nassau; 101 bbls., Carbondale Sponge Co., Nassau; 28 bbls., National Sponge & Chamol Co., Nassau; 80 bbls., Lasker & Bernstein, 4 bbls., Gallagher & Asher, Nassau; 1 pkg., American Express Co., Southampton; **Clippings**, 30 bbls., Lasker & Bernstein, Nassau.

**STARCH**—**Potato**, 224 bgs., Goldman, Sachs & Co., Otaru.

**STRONTIUM**—**Nitrate**, 230 casks., National City Bank, Rotterdam.

**TALC**—500 bgs., Italian Discount & Trust Co., Genoa; 22 bgs., C. Mathieu, Genoa.

**TALLOW**—216 bgs., E. Maurer & Co., Lisbon.

**TARTAR**—472 bgs., C. Pfizer & Co., Marseilles; 1,540 bgs., Tartar Chemical Works, Marseilles; 40 bgs., Mediterranean & General Traders, Inc., Marseilles; 52 bbls., L. Samuel, Leghorn; 200 bgs., Tartar Chemical Works, Valencia; 37 bbls., 21 bbls., Tartar Chemical Works, Leghorn; 191 casks., 433 bgs., Tartar Chemical Works, Marseilles; 68 bgs., Tartar Chemical Works, Lisbon; 224 bgs., C. Pfizer & Co., Marseilles.

**VANADIUM**—4,658 casks., Vanadium Corporation of America, Callao.

**VASELINE**—270 bbls., R. L. Fuller & Co., Yokohama.

**WATER**—**Floral**, 7 casks., J. Manheimer; **Lime**, Distilled, 4 cs., Middleton & Co., Dominica; **Mineral**, 6 cs., P. Gennaro, Naples; **Rose**, 64 cs., Lehr & Fink, Marseilles.

**WAX**—**Bees**, 20 cs., 21 bbls., Guaranty Trust Co., Rotterdam; 8 bgs., Anglo South American Bank, Valparaiso; 60 bgs., American Trading Co., Rio de Janeiro; 700 bgs., Llonel, Hagenraas Co., Rio de Janeiro; 5 seroons, W. Schall & Co., Monte Cristi; 10 bgs., W. R. Grace & Co., Sanchez; **Carnauba**, 60 bgs., R. Fuller & Co., Genoa; 5 cs., 3 casks., G. Gommi, Genoa; **Paraffin**, 640 bgs., Smith & Schipper, Calcutta.

**WHITING**—200 bgs., International Mercantile Marine Co., Southampton.

**WITHERITE**—**Lump**, 5 bgs., F. F. Wilmet & Co., Hull.

### New Incorporations

Carbide and Carbon Chemicals Corporation, Manhattan, capital \$100,000 shares of common stock, no par value; active capital \$50,000. To make oil and gas products. W. F. Barrett, M. J. Carney, W. J. Knapp, 30 East 42nd street, New York.

Union Carbide and Carbon Research Laboratories, Manhattan, capital 10,000 shares common stock, no par value; active capital \$50,000. For the purpose of making hydrocarbon experiments. W. F. Barrett, M. J. Carney, W. J. Knapp, 30 East 42nd st., New York.

Edco Products, Manhattan, capital \$5,000. To make baking powders and extracts. E. H. and B. Davidson, E. Wolf, 1,133 Broadway, New York.

Nestel Chemical Co., Passaic, N. J., capital \$25,000. To make chemicals and dyes. Isaac L. Krantzow, 120 Manhattan ave., Brooklyn; Louis P. Nestel, 448 Willoughby ave., Brooklyn; Joseph J. Kindler, 48 Martin st., Passaic, N. J.

Mep Manufacturing Corporation, Dover, Del., capital \$1,000,000. To make a substitute flavoring extract known as "mep." Robert K. Thistle, Harry C. Hand, A. Roy Myers, New York.

R. I. B. Laboratories, Dover, Del., capital \$200,000. To test drugs. C. T. Cohen, C. B. Outeen, G. L. Mackey, Wilmington, Del.

Intravenous Products Company of America, Manhattan, capital \$25,000. To make medicines and surgical instruments. A. A. Everard, D. E. Ushkow, B. Schoncer, 200 Fifth ave., New York.

Arizona Salts Products Co., Dover, Del., capital \$150,000. To manufacture dyes and laundry supplies. Robert K. Thistle, Harry C. Hand, A. Roy Myers, New York.

Pepto Co., Dover, Del., capital \$20,000. To make medicines. Robert C. Myers, H. T. Copeland, New Kingston, Pa.; P. A. Bartholomew, Greensburg, Pa.

Herman Chemical Co., Dover, Del., capital \$2,250,000. Chemists. A. J. Kingsbury, L. B. Phillips, D. D. Wharton, Dover.

Syracuse Wood Products Co., Syracuse, N. Y., capital \$50,000. M. B. Nottingham, C. A. Jones, C. V. McArdle, Syracuse.

Weisenthal & Co., Manhattan, capital \$50,000. A. M. Schultz, B. and P. Weisenthal, 55 West 93rd st., New York.

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## Patents

Copies of patents may be obtained as follows: United States, 5 cents each; send to United States Patent Office, Washington, D. C.; French, one franc; send to M. M. Belin et Cie, 56 Rue des Frances-Bourgeoises, Paris, for patents of the years 1802-1907, and to L'Imprimerie Nationale, 88 Rue Vieille du Temple, Paris, for patents of later date. German, one mark; send to Patent Office, Berlin. British, eight pence; send to Patent Office, London. Postage must be sent for British patents. Stamps are not accepted in payment for U. S. patents. In ordering patents, the number, name of patentee and subject of invention must be stated.

Granted September 21, 1920

1,352,182—Clinton S. Robinson, Chicago, Ill. A process of making a dye-soap.  
 1,352,220—Howard N. Copthorne, Chicago, Ill. A process of producing artificial resin in solution.  
 1,352,283—Joseph L. Silsbee, Salt Lake City, Utah. A method of recovering crude potassium-bearing materials from brines.  
 1,353,332—Robert Grout Wilson, Davis, W. Va. An egg mixer.  
 1,353,384—Henry Dreyfus, London, England. A composition of matter containing cellulose acetate.  
 1,353,410—Augustin Radisson and Paul Berthon, Lyons, France. Method of and apparatus for hydrogenating fatty acids and their glycerids.  
 1,353,448—Anton Christian Bohre, Bergen, Norway. A process for the concentration of sulfuric acid.  
 1,353,532—Herman Oskar Hedstrom, Djursholm, Sweden. A method of extracting radium compounds from substances containing radium.  
 1,353,641—Raymond N. Ehrhart, Edgewood, Pa. Surface condenser.  
 1,353,712—Henry Norbert Bernier, St. Eugene De Guiges, Quebec, Canada. A funnel.  
 1,353,718—William W. Buresch, Baltimore, Md. A device for attaching crimped caps to bottles.

Granted September 28, 1920

1,353,900—Alfred Ingram and Harry Ingram, Brooklyn, N. Y. A closure for jars, bottles, and other receptacles.  
 1,354,014—Reginald Baxter, London, England. A means for applying medicaments to the body.  
 1,354,105—Max Hartmann, Basel, Switzerland. Mercury compounds of glucosids and process of making same.  
 1,354,376—William C. Broadgate, New Haven, Conn. A method and process of making lanolin from wool grease.  
 1,354,409—William Earl Lawson, Rahway, and Walter Rulon Smith, Westfield, N. J. A bottle warmer and sterilizer.  
 1,354,451—Einar Bergve, Christiania, Norway. A method of producing an alkaline melt.

Granted October 5, 1920

1,354,472—Herbert H. Dow, Midland, Mich. A method of recovering bromin.  
 1,354,490—Joseph E. Johnson, Jr., New York, N. Y. A method of producing in a blast furnace, alloys of iron, high in manganese.  
 1,354,491—Joseph E. Johnson, Jr., New York, N. Y. A method of producing in a blast furnace, alloys of iron, high in Chromium.  
 1,354,561—Charles B. Jacobs, Bloomfield, N. J. A process of forming nitrogen compounds.  
 1,354,574—Floyd J. Metzger, New York, N. Y. A method for the production of ammonia.  
 1,354,575—George W. Miles, Sandwich, Mass. A method of preparing a coating material.  
 1,354,642—Evald Anderson, Los Angeles, Calif. A process of obtaining potassium chlorid.  
 1,354,683—Earle B. Phelps, and Albert F. Stevenson, Ridgewood, N. J. Process for the manufacture of Milk-Fat.

1,354,712—George P. Altenberg, Cincinnati, Ohio. Vacuum-insulated bottle and cups.  
 1,354,719—Anton Christian Bohre, Bergen, Norway. Process for the manufacture of fertilizers.  
 1,354,725—Stewart J. Carroll, Rochester, N. Y. A method of making a cellulose-nitrate composition.  
 1,354,726—Stewart J. Carroll, Rochester, N. Y. A mixed cellulose ester composition and process of making the same.  
 1,354,727—Charles Catlett, Staunton, Va. Treatment of Potassiferous materials.  
 1,354,736—William R. Fleming, Newport, Ky. A gas analysis apparatus.  
 1,354,738—Andrew Engle, Mound Prairie township, Jasper County, Iowa. Means of disposing of waste products and conserving chemical constituents thereof.  
 1,354,806—Elton R. Darling, Montclair, N. J. A process for making bismuth oxid.  
 1,354,818—Francis C. Frary, Oakmont, Pa. Method of manufacturing aluminum chlorid.  
 1,354,822—Adolph Giesecke, Buffalo, N. Y. Process of recovering protein and phosphate of calcium and magnesium from acid waste waters.  
 1,354,824—Helnrich Jacob Goldschmidt, Christiania, Norway. Process of producing aluminum compounds.  
 1,354,921—Oscar Sondheim, New York, N. Y. Closure for collapsible tubes, etc.  
 1,354,940—Frank E. Bachman, Port Henry, N. Y. Method of treating titanium solutions.  
 1,354,968—Foster Milliken, Lawrence, N. Y. Alloy of copper, nickel, zinc and iron.  
 1,354,996—William D. Pardoe, Trenton, N. J. A composition for treating fibrous material.  
 1,355,012—Paul Susol, Newport News, Va. A bottle stopper and seal.  
 1,355,048—John L. Kane, Philadelphia, Pa. Process of producing dyes of the magenta type.  
 1,355,092—Ralph L. Harris, Northampton, Mass. An accident-preventing bottle-closure.  
 1,355,098—John M. Weiss, New York, N. Y., and Charles R. Downs, Cliffside, N. J., assignors to The Barrett Co., a corporation of New Jersey. Method of oxidizing anthracene.  
 1,355,099—John M. Weiss, New York, N. Y., assignor to the Barrett Co. A process of making a coal-tar product.  
 1,355,100—John M. Weiss, New York, N. Y., and George C. Bailey, Woodcliff-on-Hudson, and Ralph S. Potter, Grantwood, N. J., assignors to The Barrett Co. Production of chlorobenzoyl benzoic acid.  
 1,355,103—George C. Bailey, Woodcliff-on-Hudson, N. J., and Felix Boettner, New York, N. Y., assignors to The Barrett Co. Treatment of high-boiling coal tar distillates for the production of resinous products.  
 1,355,105—Frank A. Canon, Grantwood, N. J., assignor to the Barrett Co. The process of producing catalytic reactions.

James Greig, Jr., well known in San Francisco business circles, has been made manager of the Chicago office of A. U. Pinkham & Co., succeeding P. B. Miller, who has returned to the Seattle office. Arrangements for the change were made during the recent visit of Mr. Pinkham to San Francisco.

The Plant Rubber and Asbestos Works, of San Francisco, has acquired the business of the Merle Magnesia Manufacturing Company at Redwood City. The factory taken over was erected two years ago to produce magnesia by a new process and the new owners will greatly enlarge it.

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